

## SEQUENCE LISTING

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<120> COMPOSITIONS AND METHODS FOR THERAPY AND  
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C10

<140> US

<141> 2000-01-14

<160> 590

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

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ccagggggtc	cagtcctctt	ccttacttca	tccccatccc	atgcbaaagg	aagacctctc	180
ctccttgggt	cacagcttcc	tctaggcttc	ccagtgtctc	caggatagag	tgggttaagt	240
tttcagctcc	atccttgtct	tgagtgtctg	gtgggttgtg	cctccagctt	ctgctcagtg	300
cttcattggc	agtgtccagc	acatgtcact	ctccactctc	tcagtgttga	tccactagtt	360
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gcgcgcttgg	cgtaattcatg	gtcataactg	tttctgtgtg	gaaattgtta	tccgctcaca	480
atccacacac	acatacgagc	cggaagcata	aagtglaaag	cctgggggtgc	ctaattgagtg	540
anctaactca	cattaattgc	gttgcgtctc	ctgnccgctt	tccagtcngg	aaaactgtcg	600
tyccagctgc	attaatgaat	cggccaacgc	ncggggaaaa	gcggtttgcg	ttttgggggc	660
tcttcgctt	ctcgtcact	nantcctgcg	ctcggctcctt	cggctgcggg	gaacgggtatc	720
actcctcaaa	ggnggtatta	cggttatccn	naaatcnggg	gatacccnng	aaaaaanttt	780
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<210> 2  
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 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

<400> 2

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ctaaagtctg	atgaacttcc	caatcagatg	agcatggatg	attggccaga	aatgaagaag	180
aagtttgcag	atgtatttgc	aaagaagacg	aaggcagagt	gggtgtcaa	ctttgacggc	240
acagatgcct	gtgtgactcc	ggtttctgact	tttgaggagg	ttgttcatca	tgatcacaac	300
aaggaacggg	gctcgtttat	caccagtgag	gagcaggacg	tgagcccccg	ccctgcacct	360
ctgctgttaa	acaccccagc	catcccttct	ttcaaaaggg	atccactagt	tctagaagcg	420
gccgcacccg	cgggtggagct	ccagsttttg	ttccctttag	tgaggggttaa	ttgcgcgctt	480
ggcgtaatac	tgggtcatagc	tgtttctctg	gtgaaattgt	tatccgctca	caattccccc	540
aacatacgag	cgggaacata	aagtgttaag	cctgggggtgc	ctaartgantg	agctaactcn	600
cattaattgc	gttgcgctca	ctgcccgctt	tccagtcggg	aaaactgtcg	tgccactgcn	660
ttantgaatc	ngccaccccc	cgggaaaaagg	cgggttgcntt	ttggggcctct	tccgctttcc	720
tcgctcattg	atcctngenc	cgggtcttcg	gctggggnga	acggttcact	cctcaaaggc	780
ggtntnccgg	ttatccccaa	acngggggata	ccngga			816

<210> 3  
 <211> 773  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(773)  
 <223> n = A,T,C or G

<400> 3

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tcttgctcct	cactgggtgat	aaacgagccc	cgttccttgt	tgtgatcatg	atgaacaacc	120
tcttcaaaag	tcagaacccg	agtcacacag	gcattctgtgc	cgtcaaagat	ttgacaccac	180
tctgccttcg	tcttcttttg	aaatacatct	gcaaaacttct	tcttcatttc	tggccaatca	240
tccatgctca	tctgatttgg	aagttcacat	gacttttagtc	canntccttt	gatcagcagc	300
tcgtagaact	gggggttctat	tgctccaaca	gccatgaatt	ccccatctgc	tgctctgtaa	360
gtcgatataga	aaggtgctcc	accatccaac	atgttctgtc	ctcgaggggg	ggcccgggtac	420
ccaattcgcc	ctatantgag	tcgtattacg	cgcgctcact	ggccgctcgtt	ttacaacgtc	480
gtgactggga	aaaccctggg	cgttaccaac	ttaatcgctt	tgacgcacat	ccccctttcg	540
ccagctgggc	gtaatanca	aaaggcccg	accgatcgcc	cttccaacag	ttgcgcacct	600
gaatgggnaa	atgggacccc	cctgttaccg	cgcattnaac	ccccgcnngg	tttngttggt	660
acccccacnt	nnaccgctta	cactttgcc	gcgcttanc	gcccgtcccc	tttnccttt	720
cttcccttcc	tttncnccn	ctttcccccg	gggtttcccc	cntcaaacc	cna	773

<210> 4  
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 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(828)  
 <223> n = A,T,C or G

<400> 4

cctcctgagt	cctactgacc	tgtgctttct	ggtgtggagt	ccagggctgc	taggaaaagg	60
aatgggcaga	cacaggtgta	tgccaatgtt	tctgaaatgg	gtataatttc	gtcctctcct	120
tcggaacact	ggctgtctct	gaagacttct	cgctcagttt	cagtgaggac	acacacaaaag	180
acgtgggtga	ccatgtttgt	tgtggyggtg	agagatggga	gggggtggggc	ccacccctgga	240
agagtggaca	gtgacacaag	gtggacactc	tctacagatc	actgaggata	agctggagcc	300
acaatgcatg	aggcacacac	acagcaagga	tgacnctgta	aacatagccc	acgctgtcct	360
gnngggcactg	ggaagcctan	atnaggccgt	gagcanaaaag	aaggggagga	tccactagtt	420
ctanagcggc	cgccaccgcg	gtgganctcc	ancctttgtt	cccttttagtg	aggggttaatt	480
gcgcgcttgg	cntaatcatg	gtcatancta	tttccctgtgt	gaaattgtta	tccgctcaca	540
attccacaca	acatacgaac	cggaaaacata	aantgtaaaac	ctgggggtgcc	taatgantga	600
ctaactcaca	ttaattgcgt	tgcgcctcact	gcccgccttcc	caatcnggaa	acctgtcttg	660
ccncttgcac	tnatgaaten	gccaaacccc	gggggaaaagc	gttttgcttcc	tgggcgctct	720
tccgcttcc	cnctcantta	ntccctncc	tgggtcattc	cggtcgengc	aaaccgggttc	780
accnctcca	aagggggtat	tccggtttcc	cnaatccgg	ggananc		828

<210> 5  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(834)  
 <223> n = A,T,C or G

<400> 5

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agtttttaatt	gcatacaaa	tactaacaaa	aactctagca	atcaagaatg	gcagcatgtt	120
attttataac	aatcaacacc	tgtggctttt	aaaatttggg	tttcataaga	taattttatac	180
tgaagtaaat	ctagccatgc	ttttaaaaaa	tgcttttaggt	cactccaagc	ttggcagtta	240
acattttggca	taaacaataa	taaaacaatc	acaattttaat	aaataacaaa	tacaacattg	300
taggccataa	tcatatacag	tataaggaaa	aggtggtagt	gttgagtaag	cagttatttag	360
aatagaatac	cttggcctct	atgcaaatat	gtctagacac	tttgattcac	tcagccctga	420
cattcagttt	tcaaagtagg	agacagggtc	tacagtatca	ttttacagtt	tccaacacat	480
tgaaaaacaag	tagaaaatga	tgagttgatt	tttattaatg	cattacatcc	tcaagagtta	540
tcaccaaccc	ctcagttata	aaaaattttc	aagttatatt	agtcataata	cttggtgtgc	600
ttatttttaa	ttagtgtctaa	atggattaag	tgaagacaac	aatgggtcccc	taatgtgatt	660
gatattggtc	atttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
tgnatnacag	tgttccanag	tttcaacctc	ctggaacatt	acagtgtgct	tgattcaaaa	780

tggtatttttg ttaaaaaatta aattttaacc tgggtggaaaa ataatttgaa atna

834

<210> 6  
 <211> 818  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (818)  
 <223> n = A,T,C or G

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 aaccacatct acaaaatgcc agtatcaggg ggcggtctcg aagccaaagt gatgtttgga 120  
 tgtaaagtga aatattagtt ggcggtatgaa gcagatagtg aggaaagtty agccaataat 180  
 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga 240  
 aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagacccag 300  
 taaaattgta ataagcagtg ctgaatttat ttggtttcgg ttgttttcta ttagactatg 360  
 gtgagctcag gtgatcgata ctctgatgc gagtaatacg gatgtgttta ggagtgggac 420  
 ttctagggga tttagcgggg tgatgcctgt tggggggccag tgccctccta gttggggggg 480  
 aggggctagg ctggagtggg aaaaggctca gaaaaatcct gcgaagaasa aaacttctga 540  
 ggtaataaat aggattatcc cgtatcgaag gcttttttgg acaggtgggtg tgtggtggcc 600  
 ttggtatgtg ctttctcgtg ttacatcgcg ccattcattgg tatatggtta gtgtgttggg 660  
 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720  
 gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnaccat 780  
 ggaatnncnc ccccggaacna ntgnatccct attcttaa 818

<210> 7  
 <211> 817  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (817)  
 <223> n = A,T,C or G

<400> 7  
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 gggttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggtga 180  
 aagtggtttg gtttagacgt ccggaattg catctgtttt taagccta atgtggggacag 240  
 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcgggga 300  
 gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg 360  
 gaagtatgta ggaattgaag attaattcgc cgtagtcggg gttctcctag gttcaatacc 420  
 attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa 480  
 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangattat 540  
 tcaaacngtc tctantcct gaaacgtctg aaatgttaat aanaattaan ttngttatt 600  
 gaatnttng gaaaagggtc tacaggacta gaaaccaa atngaaaanta atnntaangg 660  
 cnttatcntn aaaggtmata accnctccta tnatccacc caatngnatt cccacncnn 720



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acnattggat nccccanttc canaaaanggc ccccccccg tgnannccnc cttttgttcc 780
cttnantgan gggtattenc ccttngcntt atcance 817
```

```
<210> 8
<211> 799
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G
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<400> 8
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ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catccgcgag 180
tacgaacagc gcttgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
tgggtggccg angcctganc cgtcttgcct tgcctgcccc angtgggccg ccaccccctg 300
acctgcctgg gtccaaacac tgagccctgc tggcggaactt caagganaac cccacacang 360
ggatrttctt cctanantaa ggctcatctg ggctcggcc ccccaacctg gttggccttg 420
tctttgagt gagccccatg tccatctggg ccaactgteng gaccaccttt ngggagtgtt 480
ctccttaciaa ccacannatg ccgcgctcct cccggaaaac antccance tngaaaggat 540
caagnccctn atccactnnt nctanaaccc gccnccnccg cngtggaacc cnccttntgt 600
tccctttent tnagggttaa tnncccttg gccctnccan ngctctnccn ntcttccnnt 660
gttnaaattg ttangenccc nccnntccn cnnnnnnan cccgaacnn annttnnann 720
ncttgggggt nccnnngat tgaccnncn nccctntant tgentenggg nncnntgcc 780
cttccctct nggganneg 799
```

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<210> 9
<211> 801
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G
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caaggacaag gccaccaggt gcggggggccg aagcccacat gatccttact ctatgagcaa 180
aatccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang 240
caggtcatgg ggttgtnngc caactggggg ccncaacgca aaanggcna gggcctcngn 300
caccatccc angacgcggc tacactnctg gacctccnc tccaccactt tcatgcgctg 360
ttentaccg cgnatntgtc ccactgttt cngtgccnac tccancttct nggacgtgcg 420
ctacatacgc cggantcnc nctcccgctt tgccctatc cagctnccan caacaaattt 480
cncctantg caccnatcc cacttttnc agntttccnc nncngcttc cttntaaaag 540
ggttganccc cggaaaatnc cccaaagggg gggggccngg taccacactn cccctnata 600
gctgaantcc ccatnaccn gnctcnatgg anccntcent ttttaannacn ttctnaactt 660
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gggaananacc ctcgncnntn ccccnnttaa tcccncttg cnangnnent ccccnntcc 720
ncccnntng gcntntnann cnaaaaaaggc cennnancaa tctcctnnen cctcanttcg 780
ccanccctcg aaatcggcen c 801

```

```

<210> 10
<211> 789
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

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agatccctgc ctacacactg gccctccctc accaccggga gaagcaggtg ttccctgccca 180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agctccctgc 240
caggccctaa gccctggagct ccttcacctc atggacacgt ggtgctgga gccagtggcc 300
tgctccacc cccaccggc ctctgccccg cctctgcccg tgatgtctcc gtacgtgtgg 360
tggtgggtga gcccaccgan gccaggggtg ttccgggccc gggcatctgc ctggacctgc 420
ccatccctga tagtgcttcc tctgttccc ngtggcccca tccctgttta tgggtcccat 480
tgtccagctc agccagctgc tcaactgcta tatgggtgtc gccgcaggcc tgggtctggt 540
cccatttact ttgctacaca ggtantattt gacaagaacg anttggccaa ataactcagc 600
ttaaaaaatt ccagcaacat tgggggtgga aggcctgctt cactgggtcc aactccccc 660
tctgttaaac cccatggggc tgccggcttg gccgccaatt tctgttgctg ccaaantrnat 720
gtggctctct gctgccacct gttgctggct gaagtgenta cngcncanct nggggggtng 780
gggttccc 789

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<210> 11
<211> 772
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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<400> 11
cccaccctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60
tttgttaaat aaataagtta aatattttaa tgccgtgtgc tctgtgatgg caacagaagg 120
accaacaggc cacatccctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttcttgtgtg ttgccccca ggactcttcc cctacaaata 240
actttcatat gttcaaatcc catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggtaagggg ctlanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaacc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtc cgcattcca gtgcatggaa ccttctggc 480
ctccctgtat aagtccagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana 540
aactggggaa aaaagaaaag gacgccccan cccccagctg tgcantacg cacctcaaca 600

```

```

gcacaggggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaaact nggggggggca 660
accccggcac cccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720
ggcccncac cccnaatntt gctgggaaat ttttccccc ctaaattntt tc 772

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<210> 12
<211> 751
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

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<400> 12
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ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtanggtg agtctcctaaa atccgtatag ttgggtgaagc cacagcactt gagccctttc 240
atgggtgggtg tccacacttg agtgaagtct tectgggaac cataatcttt ctgatggca 300
ggcactacca gcaacgtcag ggaagtgtct agccattgtg gtgtacacca aggcgaccac 360
agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcnegagggc 420
acacttgcctc tcagtcttan caccatanca gccctgaaa accaananca aagaccacna 480
cnccggctgc gatgaagaaa tnaacccnccy ttgacaaact tgcattggcag tggganccac 540
agtggccnna aaaatcttca aaaaggatgc cccatcnatt gaccccccna atgccactg 600
ccaacagggg ctgccccacn cnennaacga tganccnatt gnacaagatc tncntggctc 660
tnatnaacnt gaacctgcn tngtggctcc tgttcaggnc cnnggcctga cttctnaann 720
aangaactcn gaagncacca cnggananno g 751

```

```

<210> 13
<211> 729
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

```

```

<400> 13
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tgtggancct cagcagtncc ctctttcaga actcantgcc aaganccttg aacaggagcc 120
accatgcagt gcttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt 180
ctgtgtgggtg cagccctgtt ggcagtgggc atctgggtgt caatcgatgg ggcacccctt 240
ctgaagatct tcgggccact gtcgtccagt gccatgcagt ttgtcaacgt gggctacttc 300
ctcatcgag ccggcgcttg ggtcttagct ctagggttcc tgggctgcta tgggtgctaag 360
actgagagca agtgtgccct cgtgacgttc ttcttcatec tctctctcat ctctattgct 420
gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttcctgacgt 480
tgctggtaat gcctgccatc aanaaaagat tatgggttcc caggaanact tcaactcaagt 540
gttggaacac caccatgaaa gggctcaagt gctgtggett cnnccaacta tacggatttt 600
gaagantcac ctacttcaaa gaaaanagtg cctttccccc atttctgttg caattgacaa 660

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acgtccccaac cacagccaat tgaaaacctg cacccaaccc aaanggggtcc ccaaccanaa 720  
 attnaaggg 729

<210> 14  
 <211> 816  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

<400> 14  
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 ggcagggtcca cgcagtgcgc tttgtcactg gggaaatgga tgcgctggag ctgcgtcaaag 180  
 ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct 240  
 tcacactcca ggaaactgtc natgcagcag ccattgctgc agcgyaactg ggtgggctga 300  
 cangtgccag agcacactgg atggcgccct tccatgnnan gggccctgng ggaaagtccc 360  
 tganccccc anctgcctct caaangcccc accttgcaca ccccgacagg ctagaatgga 420  
 atcttcttcc cgaaaggtag ttnttcttgt tgcccaancc anccccntaa acaaactctt 480  
 gcanatctgc tccngggggg tcntantacc ancgtaggaa aagaacccca ggngcgaac 540  
 caancttgtt tggatnccaa genataatct nctnttctgc ttgggtggaca gcaccantna 600  
 ctgtnnanct ttagnccttg gtccctentgg gttgnncttg aacctaatcn ccnntcaact 660  
 gggacaaggt aantngcct ccttttaatt cccnancntn cccctcgtt tgggggtttt 720  
 cncnctccta cccagaaan nccgtgttcc cccccaacta ggggcnaaa ccnnttnttc 780  
 cacaaccctn cccacccac gggttcngnt gggtng 816

<210> 15  
 <211> 783  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(783)  
 <223> n = A,T,C or G

<400> 15  
 ccaaggcctg ggcaggcata nacttgaagg tacaacccca ggaacccctg gtgctgaagg 60  
 atgtggaaaa cacagattgg cgcctactgc ggggtgacac ggatgtcagg gtagagagga 120  
 aagacccaaa ccagggtgga ctgtggggac tcaaggaang cacctacctg ttccagctga 180  
 cagtgactag ctccagaccac ccagaggaca cggccaacgt cacagtcaact gtgctgtcca 240  
 ccaagcagac agaagactac tgccctcgcat ccaacaangt gggtcgctgc cggggctctt 300  
 tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttcgtt tatggaggct 360  
 gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg 420  
 tgcaagggtg gcctttgana ngcanctctg gggctcangc gactttcccc caggggccct 480  
 ccattggaaag gcgccatcca ntgttctctg gcacctgtca gcccacccag ttccgctgca 540  
 ncaatggctg ctgcactnac antttcctng aattgtgaca acacccccca ntgcccccaa 600  
 cctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacncccg 660

```

cncctccntt ttcccccnnn aacaaagggc nctngcnttt gaactgcccn aaccnnggaa 720
tctnccnngg aaaaantncc ccccttggtt cctnnaancc cctccncnaa anctncccc 780
ccc 783

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 16
gccccaatc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaaa 60
agctgattga agcaaccctc tacttttttg tctgtgagcct ttgtcttggt gcaggtttca 120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtaggggtg agtcctcaaa atccgtatag ttgggtgaagc cacagcactt gagccctttc 240
atgggtgggtg tccacacttg agtgaagtct tcttggaac cataatcttt cttgatggca 300
ggcactacca gcaacgtcag gaagtgtca gccattgttg tgtacaccaa ggcgaccaca 360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgaggggca 420
cacttgctct cgtcttagc accatagcag cccangaac caagagcaaa gaccacaacg 480
ccngctgcga atgaaagaaa ntacccacgt tgacaaaactg catggccact ggacgacagt 540
tggcccgaa atcttcagaa aagggatgcc ccategattg aacacccana tgccactgc 600
cnacagggct gccnccnccn gaaagaatga gccattgaag aaggatcttc ntggctctaa 660
tgaactgaaa ccttgcatgg tggccctgt tcagggctct tggcagtga tcttganaaa 720
aaggaacngc nttagccccc ccaangana aaacaccccc ggggtgttgc ctgaattggc 780
ggccaaggan cctgccccn g 801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgcccgccca ctgagtggca acacccggga gctgttttgt 60
cctttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg 120
agccaccatg cagtgttca gcttcattaa gaccatgatg atcctcttca atttgtcat 180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc 240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta 300
cttctcatc gcagccggcg ttgtgggtct tgccttttgt ttctgggct gctatgggtg 360
taagacggag agcaagtgtg cctcgtgac gttcttcttc atcctcctcc tcatcttcat 420
tgctgaagtt gcagctgctg tggtcgcctt ggtgtacacc acaatggctg aaccattcct 480
gacgttgctg gtantgctg ccatcaanaa agattatggg ttcccaggaa aaattcactc 540
aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg 600

```

```

gaatttttgaa agantcncnc tacttccaaa aaaaaanant tgcctttnc ccntttctgt 660
tgcaatgaaa acntcccaan acngccaatn aaaacctgcc cnnncaaaaa ggntcncaaa 720
caaaaaaant nnaagggttn 740

```

```

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

```

```

<400> 18
ccgctgggttg cgctgggtcca gngnagccac gaagcacgtc agcatacaca gcttcaatca 60
caagggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg 120
ggatacactt tacttttagca gccaggggtga caactgagag gtgtcgaagc ttattcttct 180
gagcctctgt tagtggagga agattccggg cttcagctaa gtagtcagcg tatgtcccat 240
aagcaaacac tgtgagcagc cggaaggtag aggcaaaagc actctcagcc agctctctaa 300
cattggggcat gtccagcagt tctccaaaaca cgtagacacc agnggcctcc agcacctgat 360
ggatgagtgt ggccagcgtt gcccccttgg ccgacttggc taggagcaga aattgctcct 420
ggttctgccc tgtcaccttc acttccgcac tcactactgc actgagtgtg ggggacttgg 480
gctcaggatg tccagagaagc tggttccgc ccctcnctta atgacaccgn ccanncaacc 540
gtcggctccc gccgantgng ttcgctcgtnc ctgggtcagg gtctgctggc cncacttgc 600
aancttcgtc nggccccatgg aattcaccnc accggaactn gtangatcca ctntttctat 660
aacccgncgc caccgcnnnt ggaactccac tcttnttnc tttacttgag ggtaaggtc 720
acccttnncg ttaccttggg ccaaaacntn cntgtgtcg anantngtnaa tcnngncna 780
tnccancnc atangaagcc ng 802

```

```

<210> 19
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 19
cnaagcttcc aggtnacggg ccgcnaancc tgaccnagg tancanaang cagnncgcgg 60
gagccaccg tcacngngng nggtctttat nggagggggc ggagccacat cncgtgaant 120
cntgacccca actcccncc ncnantgca gtgatgagtg cagaactgaa ggtnacgtgg 180
caggaaccaa gancaaannc tgetccnntc caagtccgcn nagggggcgg ggctggccac 240
gncatccnt cnagtgtcgn aaagcccnnc cctgtctact tgtttgagaga acngcnnga 300
catgcccagn gttanataac nggcnagag tnannttgcc tctcccttcc ggctgcgcan 360
cngtntgtc tagnggacat aacctgacta cttaactgaa ccnngaate tncnccccct 420
ccactaagct cagaacaaaa aacttcgaca ccactcantt gtcacctgnc tgctcaagta 480
aagtgtaccc catncccaat gtntgctnga ngctctgncc tgcnttangt tcggctcctgg 540
gaagacctat caattnaagc tatgtttctg actgcctctt gtcacctgna acaancnacc 600

```

```

cnnenntcca aggggggggnc ggcccccaat ccccccaacc ntnaattnan tttancccn 660
ccccnggcc cggcctttta cnancntcnn nnacngggna aaaccnnngc tttncccaac 720
nnaatccncc t 731

```

```

<210> 20
<211> 754
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

```

```

<400> 20
tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60
caaccccctc ntccaaatnn cnttttcgg gnggggggtc caaacccaan ttanntttgg 120
annttaaatt aaatnttntt tggngggnna anccnaatgt nangaaagt naaccanta 180
tnacttnaa tncctggaaa cngtngntt ccaaaaatnt ttaaccctta antccctcgg 240
aaatngttina nggaaaaccc aanttctent aaggttggtt gaaggntnaa tnaaaanccc 300
nnccaattgt ttttngccac gcctgaatta attggnntcc gntgttttcc nttaaaanaa 360
ggnnancccc ggttantnaa tccccccnnc cccaattata ccganttttt ttngaattgg 420
gancccnccg gaattaacgg ggnnnnntcc tnttgggggg cnggnncccc ccccntcggg 480
ggttngggnc aggnccnaat tgtttaaggg tccgaaaaat cctccnaga aaaaaanctc 540
ccaggntgag nntnggggtt nccccccccc cangggccct ctcgnaaggt tgggggttgg 600
ggggcctggg attttntttc cctntttncc tccccccccc ccngggganag aggttngngt 660
tttgntcnnn ggcccccncc aaganccttn ccganttnan ttaaatccnt gcctnggcga 720
agtcctttgn agggntaaan ggccccctnn cggg 754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnac nngggaccnc tcanccggnc nnncnaccnc cggccnatca 60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccnananc cnacgcncta 120
nncanatncc actganngcg cganngnan ngagaaanct nataccanag ncaccanacn 180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn 240
nncnncanat gattttccctn anccgattac cntncccccc tanccctccc cccccaacna 300
cgaaggcnct ggncnnaagg nngcgnccnc ccgctagntc cccnncnaagt cncncncta 360
aactcanccn nattaacncc ttentgagta tcaactcccc aatctcaccc tactcaactc 420
aaaaanaten gatacaaaat aatncaagcc tgnttatnac actntgactg ggtctctatt 480
ttagnngtcc ntnaancntc ctaatacttc cagtctncc tcnccaattt cnaanggct 540
ctttcngaca gcatnttttg gttcccnntt ggggtcttan ngaattgccc ttentngaac 600
gggctentct tttccttcgg ttancctggn ttcnccggc cagttattat ttcccnnttt 660

```

```

aaattentnc cntttanttt tggcnttcna aacccccggc cttgaaaacg gccccctggt 720
aaaagggttg tttganaaaa tttttgtttt gttec 755

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagagget tactacaant gtgaanacgt 60
acgctnngan taangcgacc cgantttctag ganncnccct aaaatcanac tgtgaagatn 120
atcctgnnaa cggaanggtc accggnggat nntgctaggg tgnccnctcc cannnenttn 180
cataacteng nggcccctgcc caccaccttc ggcggcccng ngnccggggc cgggtcattn 240
gnnttaacen cactnngena noggtttccn nccccnnng acccngggcga tccgggggtnc 300
tctgtcttcc cctgnagnen anaaantggg ccncgggcc ctttaccctt nnacaagcca 360
cngcenteta ncenngccc cccctccant nngggggact gccnanngt cegttnctng 420
nnaccccnnn gggtnccctg gttgtcgant cnaccgnang ccanggatc cnaagggaagg 480
tgcgttnttg gcccctaccc ttcgctnccg nncacccctc ccgacnanga nccgctcccg 540
cnenncgng cctcnccctg caacacccgc nctcnctngt nccggnnccc ccccacccgc 600
nccctcnnc ngncgnanen ctcncncc gtctcannca ccaccccgcc ccgcccaggcc 660
ntcanccacn ggnngacnng nagenennitc genccgccgn gcnncnccct cgcncngaa 720
ctnctnngg ccantnnccg tcaancenna cnaaacgcg ctgcggggcc cgnagcgncc 780
nccctcnnga gtctcccgcn cttecnaccc angnttccn cgaggacacn nnaccccgcc 840
nncangcgg 849

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcaaaacta tacttcgctc gnactcgtgc gcctcgtcnc tcttttccctc cgcaaccatg 60
tctgacnanc ccgattnggc ngatatcnan aagntcganc agtccaaact gantaacaca 120
cacacnncan aganaaatcc nctgccttcc anagtanaen attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgcgcgca atntgtcncc gtttatntn ccagctcnc 240
ctnccnacc cactctctcn nagctgtcnn acccctngtn cgnaccccc naggtcggga 300
tcgggttttn nntgaccgng cnnccccctc cccctccat nacganccnc ccgcaccacc 360
nanngcncc nccccgnnet cttegcencc ctgtctntn cccctgtngc ctggcnngn 420
accgcattga cctcgcenn ctncnngaaa ncgnanacgt ccgggttgnn annancgtg 480
tgggnnngcg tctgcnccgc gtctctccn ncncttcca ccatcttct tacnggggtct 540
ccncccnctc tcnncacnc cctgggacgc tntcctntgc ccccttnac tccccccctt 600

```



cgncgtgncc	cgnccccacc	ntcatttnca	nacgntcttc	acaannncct	ggntnnctcc	660
cnancngnch	gtcanccnag	ggaagggngg	ggnnccnntg	nttgacgttg	nggngangtc	720
cgaanantcc	tcnccntcan	cctacccct	cgggcgnnet	ctcngttncc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	ccnccccnct	ctctgcantg	tnctctgctc	840
tnaccnntac	gantnttcgn	cncctctttt	cc			872

&lt;210&gt; 24

&lt;211&gt; 815

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(815)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 24

gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggctcnta	60
nctgncttcc	tgtgtcaaat	gtatacnaan	tanatatgaa	tctnatntga	caaganngta	120
tcntncatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattncgn	180
cgcattcncn	gcncantatn	taatngggaa	ntcnmntnnn	ncaccnncat	ctatcntncc	240
gcnccttgac	tggmagagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggattn	300
aanancccc	cgcngnccac	cggttngnng	cnagccmntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aaentgggaa	acccgcnncc	angtnnaagt	ngnnncanan	420
gateccgtec	aggnttnacc	atcccttcnc	agcgcccgct	ttngtgcctt	anagrngnagc	480
gtgtccnanc	cncctcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccccta	gggggantna	tncaaanccc	caggattgtc	cncncangaa	atcccnccanc	600
ccnccctac	ccncttttgg	gaatgtgacc	aantcccgga	gtncacgtcc	ggccngnctc	660
ccccaccggt	nnccttgggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggnccctn	ggncgaanng	ancnntcnga	agncccnct	cgtataaacc	ccctcnccca	780
nccnacngnt	agntcccccc	cngggtncgg	aangg			815

&lt;210&gt; 25

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(775)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 25

ccgagatgtc	tcgctccgtg	gccttagctg	tgctcgcgct	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcacg	tcacccagca	gagaatggaa	120
agtcaaat	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttgact	180
tactgaagaa	tgganagaga	attgaaaaag	tggagcatte	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctcntg	tactacactg	aattcacccc	cactgaaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agcccaagat	agttaagtgg	gatcgagaca	360
tgtaagcagn	cnncatggaa	gtttgaagat	gccgcatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcntttta	antgatatgc	ntatacaccc	taccctttat	gnccccaaat	480

tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	ccnccnttcg	540
aattgcccg	cncnngttn	ngaagtgttc	cnaaaccacg	gttggctccc	ccaggtcncc	600
tcttacggaa	gggcctgggc	cnccttncaa	ggttggggga	accnaaaatt	tcncttntgc	660
ccncccncca	cantcttgng	nnncanttt	ggaacccttc	cnattccctt	tggcctcnna	720
nccttnncta	anaaaacttn	aaancgtngc	naaanntttn	acttcccccc	ttacc	775

&lt;210&gt; 26

&lt;211&gt; 820

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(820)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 26

anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncctatanca	acagtgtttt	gaccaagagc	tgctgggcac	atttcttgca	120
gaaaagggtg	cggcccccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcgggtggga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcggggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgtctc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnnaact	gcnccctggg	gacagcncctg	ggancagcta	420
acnnagcaat	cacctgcccc	cccatggccg	tnccgntccc	tggtcctgnc	aagggaagct	480
ccctgttgga	attncggggga	naaccaaggga	ccccccctct	ccanctgtga	aggaaaaann	540
gatggaattt	tncccttccg	gcnntcccc	tcttcttcta	cacgccccct	nnctactctc	600
tccctctntt	ntcctgncnc	acttttnacc	ccnnnatctc	ccttnattga	tccgannctn	660
ganattccac	tnnccgctnc	cncnctatng	naaanacnaa	nactntctna	ccnnggggat	720
gggnnccctg	ntcctcctct	cttttctnct	accnccnntt	ctttgctctt	ccttngatca	780
780tccaaccntc	gntggccntn	cccccccnnn	tcctttnccc			820

&lt;210&gt; 27

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 27

tctgggtgat	ggcctcttcc	tcctcaggga	cctctgactg	ctctgggcca	aagaatctct	60
tgtttcttct	ccgagcccca	ggcagcgggtg	attcagccct	gcccacactg	attctgatga	120
ctgcggatgc	tgtgacggac	ccaaggggca	aataggggtc	caggggtccag	ggagggggcgc	180
ctgctgagca	cttccgcccc	tcaccctgcc	cagccctctg	catgagctct	gggctgggtc	240
tccgcctcca	gggttctgct	cttccangca	ngccancaa	tgccgctggg	ccacactggc	300
ttcttctctg	ccnctccctg	gctctganc	tctgtcttcc	tgctcctgtg	angcnccttg	360
gatctcagtt	tccctcnctc	anngaactct	gtttctgann	tcttcantta	actntgantt	420
tatnaccnan	tggnetgtnc	tgtcnnactt	taatgggccc	gaccggctaa	tccctccctc	480

```

nctcccttcc atttcnnnna accngcttnc cntctctctc ccntancccg ccngggaanc 540
ctcctttgccc ctnaccangg gccnnnacccg ccctnnctn ggggggcnnng gtnnctncnc 600
ctgntnnccc cncctncnnt tncctcgtec cnnncnccgn nngcannttc ncngtcccn 660
tnnctcttcn ngntnccgnaa ngntcnctn tnnnnngncn ngntnnntcn tccctctcnc 720
cnnntgnang tnnntnnnnc ncngnncccc nnnnnnnnn nggnnnntnn tctncncngc 780
cccncccccc ngnattaagg cctccnntct ccggccnc 818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaaggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg 60
tccaacatg anggtgnngt tctcttttga angagggttg ngtttttann ccnggtgggt 120
gattnaaccc cattgtatgg agnnaaagg ttttagggat ttttcggctc ttatcagtat 180
ntanattcct gtnaatcgga aaatnatntt tcnnccggaa aatnttgctc ccatccgnaa 240
attnctcccg ggtagtgcac nttngggggg cngccangtt tcccaggctg ctanaatcgt 300
actaaagntt naagtgggan tncaaatgaa aacctnnccac agagnatccn taccgcactg 360
tnnnntnccct tcgccctntg actctgcnnng agcccaatac ccnngnngnat gtcncccnyn 420
nnngcgcncn tgaaannnnc tcngggcctnn gancatcang gggtttcgca tcaaaagcnn 480
cgtttencat naaggcactt tngcctcacc caaccnctng ccctcnncca tttngccgctc 540
nggttencct acgctnnntg cncctnnntn ganattttnc ccgcctnggg naancctcct 600
gnaatgggta gggnccttntc ttttnaccnn gnggtntact aatcnnctnc acgctnctt 660
tctcnacccc cccctttttt caatcccanc ggnaaatggg gtctccccnn cgangggggg 720
nnncccannc c 731

```

```

<210> 29
<211> 822
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

```

```

<400> 29
actagtccag tgtgggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat 60
cgctcanacc tcacancctc ccnacnangc ctataangaa nannaataga nctgtncnnt 120
atntntacnc tcatanncct cnnnaccac tccctcttaa ccctactgt gcctatngcn 180
tnnctantct ntgcgcctn cnanccaccn gtgggcccac cncnngnatt ctcnatctcc 240
tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300
tccatnantt annntaacta ccactgaent ngactttcnc atnancctct aatttgaatc 360
tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaadc 420
ntcaacaacc tatctantct ttncccaacc nttncctccg atccccnnac aacccccctc 480

```

```

ccaaataccc nccacctgac ncctaaccn caccatcccc gcaagccnan ggncatttan 540
ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana 600
aatnctcctn naatttactn ncantnccat caanccccacn tgaaacnnaa cccctgtttt 660
tanatccctt ctttcgaaaa ccnacccttt annnccccaac ctttnggggc ccccnctnc 720
ccnaatgaag gncnccccat cnangaaacg nccntgaaaa ancnnaggcna anannntccg 780
canatctat ccttanttn ggggnccctt ncccnggggc cc 822

```

```

<210> 30
<211> 787
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

```

```

<400> 30
cgggcgccctg ctctggcaca tgccctctga atggcatcaa aagtgatgga ctgcccattg 60
ctagagaaya ccttctctcc tactgtcatt atggagccct gcagactgag ggctccctt 120
gtctgcagga ttgatgtct gaagtcgttg agtgtggctt ggagctctc atctacatna 180
gctggaagcc ctggaggggc tctctcgcca gccctccccct tctctccacg ctctccangg 240
acaccagggg ctccaggcag cccattatcc ccagnangac atgggtgtttc tccagcgga 300
cccatggggc ctgnaaggcc agggctctct ttgacacccat ctctcccgct ctgctggca 360
ggccgtggga tccactantt ctanaacggg cggccacnccg gtgggagctc cagcttttgt 420
tcccnttaat gaaggttaat tgcncgcttg gcgtaatcat nggtcanaac tnttctctgt 480
gtgaaattgt ttntccctc ncnatccnc ncnacatacn aaccgggaan cataaagtgt 540
taaagcctgg gggtnccctn nngaataaac tnaactcaat taattgcgtt ggctcatggc 600
ccgctttccn ttccnggaaa ctgtctctcc ctgcttntnt gaatcgggca ccccccnggg 660
aaaagcgggt tgcnttttng ggggntccct cccctctccc cctcnctaan ccttncgct 720
cggtcgttnc nggtngcggg gaangggnat nnnctccnc naagggggng agnnngntat 780
ccccaaa 787

```

```

<210> 31
<211> 799
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

```

```

<400> 31
tttttttttt tttttttggc gatgctactg ttttaattgca ggaggtgggg gtgtgtgtac 60
catgtaccag ggctattaga agcaagaagg aaggaggag ggagagcgc cctgctgagc 120
aacaaaggac tcctgcagcc ttctctgtct gtctcttggc gcaggcacat ggggaggcct 180
ccgcaggggt gggggccacc agtccagggg tgggagcact acanggggtg ggagtgggtg 240
gtggctggtn cnaatggcct gncacanatc cctacgattc ttgacacctg gatttcacca 300
ggggaccttc tgttctccca nggnaacttc ntnnatctcn aaagaacaca actgtttctt 360
cngcanttct ggctgttcat ggaaagcaca ggtgtccnat ttnggctggg acttggta 420

```

tatgggttcg	gcccacctct	ccntcnaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccc	taantacca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnactncn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnctc	cccatagnan	600
nttttntnt	canctaata	cccccnngc	aacnatccaa	tcccccccn	tgggggcccc	660
agcccanggc	ccccgnctcg	ggnnncnng	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgcaacga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnnncac	780
ctcgcccccc	ccnncgng					799

&lt;210&gt; 32

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(789)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttccnag	ggcagggtta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcgggc	gcggcgggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgcctcccgt	tgatnttct	ctgcagctgc	aggatgcct	aaaacagggc	ctcgccctn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgccanc	cctcaccacc	300
nattaggaat	agtggnttta	ccnccnccg	ttggcncact	cccnttgaa	accacttntc	360
gcggctccgg	catctggctc	taaaaccttg	aaacnctggg	gccctctttt	tggttantnt	420
ncnccccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaaanc	ccccaaaacc	480
ggncatgtc	ttncgggggt	tgctgcnatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagtgc	ttgngggccn	caaaaaaanc	ccggggggnc	ccagtttcaa	caaagtcatc	600
cccttgggcc	cccaaatcct	ccccccgntt	ncctgggttt	ggaacccacg	cctctnnctt	660
tggnnggcaa	gntggntccc	ccttcggggc	cccggtgggc	ccnctctaa	ngaaaaacnc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccnccg						789

&lt;210&gt; 33

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(793)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtat	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttggtcat	catgatcaca	300
acaangaacg	gggctcggtt	atcaccantg	aggagcagga	cgtgagcccc	cgcctgcac	360

```

ctctgctgtt aaacaccccca gccatccctt ctttcaaaaag ggatccacta cttctagagc 420
ggngccacc gcggtggagc tccagctttt gttcccttta gtgaggggta attgcgcgct 480
tggcgtaatc atggtcatan ctgtttcctg tgtgaaattg ttatccgctc acaattccac 540
acaacatacy anccggaagc atnaaaatfff aaagcctggn ggtngcctaa tgantgaact 600
nactcacatt aattggcttt gcgctcactg cccgctttcc agtccggaaa acctgtcctt 660
gccagctgcc nttaatgaat cnggccaccc cccggggaaa aggcngtttg cttnttgggg 720
cgccttccc gctttctcgc ttctgaant ccttcccccc ggtctttcgg cttgcggcna 780
acggtatcna cct 793

```

```

<210> 34
<211> 756
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

```

```

<400> 34
gccgcgaccg gcatgtacga gcaactcaag ggcgagtggg accgtaaaag ccccaatctt 60
ancaagtgcg gggaanagct gggtcgactc aagctagtgc ttctggagct caacttcttg 120
ccaaccacag ggaccaagct gaccaaacag cagctaattc tggcccggtg catactggag 180
atcggyggcc aatggagcat cctacgcaan gacatccctt ccttcgagcg ctacatggcc 240
cagctcaaat gctactactt tgattacaan gagcagctcc ccgagtcagc ctatatgcac 300
cagctcttgg gcttcaactt cctcttcttg ctgtccaga accgggtggc tgantnccac 360
acgganttgg ancggctgcc tgcccaanga catacanacc aatgtctaca tcnaccacca 420
gtgtcctgga gcaatactga tgganggcag ctaccncaaa gtnttcttg ccnagggtaa 480
catccccgc cgagagctac accttcttca ttgacatcct gctcgacact atcagggatg 540
aaaatcgng ggttgctcca gaaaggctnc aanaanacc ttttctctga aggcccccg 600
atnctctagt nctagaatcg gcccgccatc gcggtgganc ctccaaactt tcyttncct 660
ttactgaggg ttntattgag cctttggcgt tatcatggtc acnccngttn cctgtgttga 720
aatnttaac cccccacaat tccacgcna cattn 756

```

```

<210> 35
<211> 834
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

```

```

<400> 35
ggggatctct anactnacct gnatgcatgg ttgtcggtgt ggtcgctgtc gatgaanatg 60
aacaggatct tgcccttgaa gctctcggct gctgtnttta agttgctcag tctgccgtca 120
tagtcagaca cncctcttggg caaaaaacan caggatntga gtcttgattt cacctccaat 180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggg tgtgtntgat 240
aaantccanc angttctcct tggtgacctc ccttcaaaag ttgttccggc cttcatcaaa 300
cttctnnaan angannancc canctttgtc gagctggnat ttgganaaca cgtcactgtt 360

```

```

ggaaactgat cccaaatggt atgtcatcca tcgcctctgc tgccctgcaaa aaacttgctt 420
ggcncaaate cgactccccc tccttgaaaag aagccnatca cccccccctc cctggactcc 480
nncaangact ctnccegtnc cccntccnng cagggttggt ggcanncgg gcccntgcgc 540
ttcttcagcc agttcacnat ntcatcagc cctctgcca gctgtntat tccttggggg 600
ggaanccgtc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gcntcncnt 660
acntnctggg ccgggttcaa antccctccn ttgncnntcn cctcgggcca ttctggattt 720
nccnaacttt ttccttcccc cccccnccg ngtttggnnt ttcatnggg ccccaactct 780
gctnttggcc antccctggt gggcntntan cccccctnt ggtcccntng ggcc 834

```

```

<210> 36
<211> 814
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

```

```

<400> 36
cggncgcttt ccngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn 60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcccc 120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tggctctctc accccctgta 180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt ggtgtttact 240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgccaccgc cagcctggca 300
ctaaaacanc ccagegctca cttctgcttg ganaaatatt ctttgcctt ttggacatca 360
ggcttgatgg tatcaactgcc acntttccac ccagctgggc ncccttcccc catntttgtc 420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc 480
aggggangtc ntttncagtg gatctgccc aaanantccn tatcatcnnt gaataaaaag 540
gcccctgaac ganatgcttc cancanctt taagacccat aatcctngaa ccattggtgc 600
cttcgggtct gatccnaaag gaatgttctt gggteccant cctccttttg ttncctacgt 660
tgtnttgga cctngctngn atnaccnaan tganatcccc ngaagcacc tncctctggc 720
atgtganttt cntaaattct ctgccctacn nctgaaagca cnattccctn ggcnccnaan 780
ggngaactca agaaggtctn ngaaaaacca cncn 814

```

```

<210> 37
<211> 760
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

```

```

<400> 37
gcattgctgt cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg 60
gcgcagtgtt cgctgaaggg gttgtagtac cagcgcggga tgctctcctt gcagagtctt 120
gtgtctggca ggtccacgca atgccctttg tcaactgggga aatggatgcg ctggagctcg 180
tcnaanccac tcgtgtatth ttacacangca gcctcctccg aagcntccgg gcagttgggg 240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt 300

```

```

gggctgacag gtgccagaac aactgggatn ggcctttcca tggaagggcc tgggggaaat 360
cncctnancc caaactgcct ctcaaaggcc accttgacac ccccgacagg ctagaaatgc 420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aacccaaaanc 480
ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccggcngn 540
ganccncctt gtttgaatgc naaggnaata atcctcctgt cttgcttggg tggaanagca 600
caattgaaact gttaacnttg ggccgngttc cncnnggggt gtctgaaact aatcacgcgc 660
actggaaaaa ggtangtgcc ttcccttgaat tcccaaannt cccctngntt tgggtntttt 720
ctctctncc ctaaaaatcg tnttcccccc cntanggcg 760

```

```

<210> 38
<211> 724
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

```

<400> 38
tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa 60
cttccnaaat tgtccaaccc cctcnccaa atnnccattt cggggggggg gttccaaacc 120
caaattaatt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa 180
aatttaaccc attatnaact taaatncctn gaaacccntg gnttccaaaa atttttaacc 240
cttaaatccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300
ngatttaaac ccccttnant tnttttnacc cnnngctnaa ntatttngnt tccggtgttt 360
tctntttaan cntnggtaac tcccgnataa gaannnccct aancgaatta aaccgaattt 420
tttttgaatt ggaaattccn ngggaattna cgggggtttt tcccntttgg gggccatncc 480
cccnccttgc ggggtttggg ntaggttgaa tttttnnang nccccaaaaa ncccccaana 540
aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggccttttgg gaaaggnggg 600
tttntggggg ccngggantt cnttcccccn ttncncccc ccccccnggt aaanggttat 660
ngnntttggt ttttgggccc cttnanggac cttccgggatn gaaattaaat ccccggnccg 720
gccg 724

```

```

<210> 39
<211> 751
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 39
tttttttttt tttttctttg ctcacattta atttttattt tgattttttt taatgctgca 60
caacacaata tttatttcat ttgtttcttt tatttcattt tatttgtttg ctgctgctgt 120
tttatttatt tttactgaaa gtgagagggg acttttgttg ccttttttcc tttttctgta 180
ggccgcctta agctttctaa atttggaaca tctaagcaag ctgaanggaa aaggggggtt 240
cgcaaatca ctcgggggaa nggaaagggt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgctnaangc ttttaattana 360

```



```
<210> 40
<211> 753
<212> DNA
<213> Homo sapien
```

<400> 40

```
<210> 41
<211> 341
<212> DNA
<213> Homo sapien
```

<400> 41

```
<210> 42
<211> 101
<212> DNA
<213> Homo sapien
```

<400> 42  
 acttactgaa ttttagttctg tgctcttctt tattttagtgt tgtatcataa atactttgat 60  
 gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101

<210> 43  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 43  
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttcttctctg gtctcacc 60  
 tccaggggtgg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120  
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaacca 180  
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240  
 tggatacaga acgagagtta tcttggataa ctcagagctg agtacctgcc cgggggcccgc 300  
 tcgaa 305

<210> 44  
 <211> 852  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(852)  
 <223> n = A,T,C or G

<400> 44  
 acataaatat cagagaaaag tagtctttga aatattttacg tccaggagtt ctttgtttct 60  
 gattattttgg tgtgtgtttt gggttgtgtc caaagtattg gcagcttcag ttttcatttt 120  
 ctctccatcc tcgggcatte tccccaaatt tatataccag tcttcgtcca tccacacgct 180  
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240  
 tgctgttgtt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300  
 agacgccttc agatcgggtct tcccatttta ttaatcctgg gttcttgtct ggggtcaaga 360  
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttggtgtggc 420  
 acttggcagg ggggtcttgc tcttttttca tatcaggtga ctctgcaaca ggaaggtgac 480  
 tgggtggttgt catggagatc tgagcccggc agaaagtttt gctgtccaac aaatctactg 540  
 tgctaccata gttgggtgtc tataaatagt tctngtcttt ccagggtgtc atgatggaag 600  
 gctcagtttg ttcagtcttg acaatgacat tgtgtgtgga ctggaacagg tccactactgc 660  
 actggcgggt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720  
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctcgccgttg atgtcgaact 780  
 cntggaaagg gatacaattg gcatccagct gggttgggtgc caggaggtga tggagccact 840  
 cccacacctg gt 852

<210> 45  
 <211> 234  
 <212> DNA  
 <213> Homo sapien

<400> 45  
 acaacagacc cttgctcgct aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60

```
<210> 46
<211> 590
<212> DNA
<213> Homo sapien
```

<400> 46

```
<210> 47
<211> 774
<212> DNA
<213> Homo sapien
```

<400> 47

acaagggggc	ataatgaagg	agtggggana	gattttaaag	aaggaaaaaa	aacgaggccc	60
tgaacagaa	tttctgnac	aacggggcct	caaaataa	ttcttgggga	ggttcaagac	120
gcttactg	ttgaaactta	aatgggatgt	ggacanaatt	ttctgtaatg	acctgaggg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaa	gggacaaa	cta	240
aacatcaaag	aaaggaagg	ggcgtcatac	ctcccagcct	acacagttct	ccagggctct	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtcccagg	ctcctgtgtg	360
ctggctctg	gtcttcagcc	cccagctctg	gaagcccacc	ctctgctgat	cctgcgtggc	420
ccacactcct	tgaacacaca	tcccaggtt	atattcctgg	acatggctga	acctcctatt	480
cctacttccg	agatgccttg	ctccctgcag	cctgtcaaaa	tccactcac	cctccaaacc	540
acggcatggg	aagcctttct	gacttgccctg	attactccag	catcttggaa	caatccctga	600
ttccccactc	cttagaggca	agataggggtg	gttaagagta	gggctggacc	acttggagcc	660
aggctgctgg	cttcaaattn	tggctcattt	acgagctatg	ggaccttggg	caagtnatct	720
tcacttctat	gggcntcatt	ttgttctacc	tgcaaaatgg	gggataataa	tagt	774

<210> 48  
 <211> 124  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> n = A,T,C or G

<400> 48  
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60  
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120  
 tggt 124

<210> 49  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n = A,T,C or G

<400> 49  
 gccgatgcta ctattttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt 60  
 tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120  
 ttagggcacc catatcccaa gcantgt 147

<210> 50  
 <211> 107  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 acattaaatt aataaaagga ctgttggggg tctgctaaaa cacatggctt gatataattgc 60  
 atgggttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60  
 cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120  
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttgacca 180  
 cctccctttt gggaccagca atgt 204

<210> 52

<211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(491)  
 <223> n = A,T,C or G

<400> 52  
 acaaagataa cttttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta 60  
 ggggtattttt caaaagacta aagagataac tcagggtaaaa agttagaaat gtataaaaca 120  
 ccatcagaca gggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180  
 aaaactttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaattatt 240  
 tcanaaacac ttcttcaaaa attttcaana tggtagcttt canatgtnc ctcagtccca 300  
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360  
 atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420  
 caattttatt tggataacaa aggggtctcca aatttatattg aaaaaataat ccaagttaat 480  
 atcactcttg t 491

<210> 53  
 <211> 484  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 53  
 acataattta gcagggtctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60  
 gtattaacag tryctgaagt ttgggtatttt tatgcagcat tttctttttg ctttgataac 120  
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180  
 caatcaaate tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240  
 gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300  
 agctttgant ttttttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360  
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncg 420  
 tancctgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480  
 cant 484

<210> 54  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 54  
 actaaacctc gtgcttgtga actccatata gaaaacggtg ccatccctga acacggctgg 60  
 ccaactgggta tactgctgac aaccgcaaca acaaaaacac aaatccttgg cactggctag 120  
 tctatgtcct ctcaagtgcc tttttgtttg t 151

<210> 55  
 <211> 91  
 <212> DNA  
 <213> Homo sapien

<400> 55  
 acctggcttg tctccgggtg gttcccggcg cccccacgg tccccagaac ggacactttc 60  
 gccctccagt ggatactcga gccaaagtgg t 91

<210> 56  
 <211> 133  
 <212> DNA  
 <213> Homo sapien

<400> 56  
 ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60  
 tggatttttg gtatctgtgg gttgggggga cggtcagga accaataccc catggatacc 120  
 aagggacaac tgt 133

<210> 57  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n = A,T,C or G

<400> 57  
 actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60  
 gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120  
 tctcantggg ctggatncat gcagggt 147

<210> 58  
 <211> 198  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(198)  
 <223> n = A,T,C or G

<400> 58  
 acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60  
 tgattacata catttatcct ttaaaaaaga tgtaaatctt aatttttatg ccacttatta 120  
 atttaccat gagttacctt gtaaatgaga agtcatgata gcactgaatt ttaactagtt 180  
 ttgacttcta agtttggt 198

<210> 59

<211> 330  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 acaacaaatg ggttggtgagg aagtcttatac agcaaaaactg gtgatggcta ctgaaaagat 60  
 ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaaactc actcaatttt 120  
 cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180  
 tacagtcaat aaatgacaaa gccagggcct acaggtggtt tccagacttt ccagaccag 240  
 cagaaggaat ctattttatac acatggatct ccgtctgtgc tcaaaaatacc taatgatatt 300  
 tttcgtcttt attggacttc tttgaagagt 330

<210> 60  
 <211> 175  
 <212> DNA  
 <213> Homo sapien

<400> 60  
 accgtgggtg ccttctacat tcttgacggc tcttcacca acatctgggt ctacttcggc 60  
 gtcgtgggtc ccttctctt catctcctc cagctgggtc tgctcatcga ctttgcgac 120  
 tcttggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccggtc ctggt 175

<210> 61  
 <211> 154  
 <212> DNA  
 <213> Homo sapien

<400> 61  
 accccacttt tcttctgtg agcagttctg acttctcact gctacatgat gaggtgagt 60  
 ggttggtgct cttcaacagt atcctccct ttcgggatct gctgagccgg acagcagtgc 120  
 tggactgcac agccccgggg ctccacattg ctgt 154

<210> 62  
 <211> 30  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 cgctcgagcc ctatagttag tcgtattaga 30

<210> 63  
 <211> 89  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 acaagtcaat tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60  
 ctgtatgaat aaaaatgggt atgtcaagt 89

<210> 64  
 <211> 97

<212> DNA

<213> Homo sapien

<400> 64

accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag	60
aatcagtgca tccaggattg gtccttggat ctgggggt	97

<210> 65

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 65

acaacaanaa ntcccttctt taggccactg atggaaacct ggaacccctt tttgatggca	60
gcatggcgctc ctaggccttg acacagcggc tgggggtttgg gctntcccaa accgcacacc	120
ccaacccctgg tctaccacaca nttctggcta tgggctgtct ctgccactga acatcagggt	180
tcggtcataa natgaaatcc caanggggac agaggctcagt agaggaagct caatgagaaa	240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgc	300
tgggggtgaa ctacccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag	360
gggcgggagg agcatgt	377

<210> 66

<211> 305

<212> DNA

<213> Homo sapien

<400> 66

acgcctttcc ctccagaattc aggggaagaga ctgtcgccctg ccttccctccg ttgttgcgctg	60
agaacccgctg tgcccccctcc caccatatcc accctcgctc catctttgaa ctcaaacacg	120
aggaactaac tgcacccctgg tccctctcccc agtccccagt tcacccctcca tccctcacct	180
tccctccactc taaggggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt	240
ttatatattt ttttaataaga tgcacittat gtcatttttt aataaagtct gaagaattac	300
tgttt	305

<210> 67

<211> 385

<212> DNA

<213> Homo sapien

<400> 67

actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga	60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggc ctgagagttc	120
ccctttttaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc	180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tctttagagg	240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg	300
cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac	360



385

<400> 68

<400> 69

<400> 70

```
<210> 71
<211> 533
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(533)  
 <223> n = A,T,C or G

<400> 71  
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60  
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattgggttta 120  
 tgtgatttta gtgggtatatt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180  
 attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcattctcatt 240  
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaagctgtc 300  
 aaatagggtg gacctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360  
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420  
 ctctgtaatt ttggagtang aggttccctc ctcaattttg tattttttaa aagtacatgg 480  
 taaaaaaaaa aattcacac agtatataag gctgtaaaat gaagaattct gcc 533

<210> 72  
 <211> 511  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 72  
 tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcgtgta 60  
 aaatgaaagg ctccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa 120  
 aagccgcagg atgtctacac tatancaggc gctatattggg ttggctggag gagctgtgga 180  
 aaacatggan agattggtgc tgganacgc cgtggctatt cctcattgtt attacanagt 240  
 gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca 300  
 cacatgagaa ctgaaatggc ccaaacccag aaagaaagcc caactagatc ctcagaanac 360  
 gcttctaggg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg 420  
 atttctctcc attgcagcna naaacccgtt cttctaagca aacncagggtg atgatggcna 480  
 aaatacaccc cctcttgaag naccnggagg a 511

<210> 73  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 73  
 cagtgccagc actggtgcc gtaccagtac caataacagt gccagtgcc gtgccagcac 60  
 cagtgggtggc ttcagtgtg gtgccagcct gaccgccact ctacatttg ggctcttcgc 120  
 tggccttggg ggagctggtg ccagcaccag tggcagctct ggtgcctgtg gtttctcta 180

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caagtgagat tttagatatt gttaatcctg ccagtccttc tcttcaagcc aggggtgcatc 240
ctcagaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca 300
ctctgcatta aatctatctt ccatctctga aaaaaaaaaa aaaaaaaagg cgcccgctcg 360
antctagagg gcccgcttaa acccgctgat cagcctcgac tgtgccttct anttgccagc 420
catctgttgt ttgccccctc cccgntgcct tctttgaccc tggaaaagtgc cactccact 480
gtcctttcct aantaaaat 499

```

<210> 74

<211> 537

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(537)

<223> n = A,T,C or G

<400> 74

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tttcatagga gaacacactg aggagatact tgaagaatct ggattcagcc gccaagagat 60
ttatcagctt aactcagata aaatcattga aagtaataag gtaaaagcta gtctctaact 120
tccaggccca cggtcgaagt gaatttgaat actgcattta cagtgtagag taacacataa 180
cattgtatgc atggaaacat ggaggaacag tattacagtg tctaccact ctaatcaaga 240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300
ggcttttgat ttataaanact ttgggtactt atactaaatt atggtagtta tactgccttc 360
cagtttgctt gatatacttg ttgatactaa gattcttgac ttatatcttg aatgggttct 420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttatctt cactcttgat 480
tctacaatgt agaaaatgaa ggaaatgccc caaattgcat ggtgataaaa gtcccgct 537

```

<210> 75

<211> 467

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 75

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caaanacaat tggtcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
tgcataattac acgtacctcc tctgtctcct caagtagtgc ggtctatctt gccatcatca 120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
tggcacaagg aggccatctt ttctctcatc gttattgtcc ctagaagcgt cttctgagga 240
tctagttggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300
tcattattgt ataacgggtt tcaaacnngt gggcacncag agaacctcac tctgtaataa 360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

```

<210> 76

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 76

aagctgacag	cattcggggcc	gagatgtctc	gtcccggtggc	cttagctgtg	ctcgcgctac	60
tctctctttc	tggcctggag	gctatccagc	gtactccaaa	gattcagggt	tactcacgtc	120
atccagcaga	gaatggaaag	tcaaatttcc	tgaattgcta	tgtgtctggg	tttcatccat	180
ccgacattga	agttgactta	ctgaagaatg	gagagagaat	tgaaaaagtg	gagcattcag	240
acttgtcttt	cagcaaggac	tgggtctttct	atctcttgta	ctacactgaa	ttcaccccca	300
ctgaaaaaga	tgagtatgcc	tgccgtgtga	accatgtgac	tttgtcacag	cccaagatng	360
ttnagtggga	tccanacatg	taagcagcan	catggggaggt			400

<210> 77

<211> 248

<212> DNA

<213> Homo sapien

<400> 77

ctggagtgcc	ttggtgtttc	aagcccttgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgccc	cggcggggga	tgcgaggctc	ggagcacccct	tgcccggtcg	tgattgctgc	120
caggcactgt	tcattctcagc	ttttctgtcc	ctttgtctcc	ggcaagcgct	tctgctgaaa	180
gttcatatct	ggagcctgat	gtcttaacga	ataaagggtcc	catgctccac	ccgaaaaaaaa	240
aaaaaaaa						248

<210> 78

<211> 201

<212> DNA

<213> Homo sapien

<400> 78

actagtccag	tgtgggtggaa	ttccattgtg	ttggggccaa	cacaatggct	acctttaaca	60
tcaccagac	cccgccctgc	ccgtgcccc	cgctgctgct	aacgacagta	tgatgcttac	120
tctgtactc	ggaaactatt	tttatgta	taatgtatgc	tttcttgttt	ataaatgcct	180
gatttaaaaa	aaaaaaaaaa	a				201

<210> 79

<211> 552

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(552)

<223> n = A,T,C or G

<400> 79

tccttttgtt	aggtttttga	gacaacccta	gacctaaact	gtgtcacaga	cttctgaatg	60
------------	------------	------------	------------	------------	------------	----

```

tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120
cctctttctt ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240
atgcaagtta gtaattactc aggggttaact aaattacttt aatatgctgt tgaacctact 300
ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga 360
taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tgggaatttta 420
ttcccaggaa tatgggggtt atttatgaat antaccggg anagaagttt tgantnaaac 480
cngttttggt taatacgta atagtgcctn aatnaacaag gcntgactta tttccaaaaa 540
aaaaaaaaaa aa 552

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60
ggggaaaatg gggcctagaa gtacagagc atctagctgg tgcgctggca cccctggcct 120
cacacagact cccgagtage tgggactaca ggcacacagt cactgaagca ggccctgttt 180
gcaattcacg ttgccacctc caacttaaac attcttcata tytgatgtc ttagtcacta 240
aggttaaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300
tcttctaagt cctcttcocag cctcactttg agtccctcctt gggggttgat aggaantntc 360
tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtag gcntaaaaat 420
gttgaaaaaa ttaaaatgtt ctgggtttcnc tttaaaaaaa aaaaaaaa aaaaaa 476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81
tttttttttg tatgcctnctn ctgtggngtt attgttgctg ccaccctgga ggagcccagt 60
ttcttctgta tctttctttt ctgggggagc ttcttggtc tgcacctcca tcccagcct 120
ctcatcccca tcttgcactt ttgctagggg tggagggcgt ttcttggtag cccctcagag 180
actcagtcag cggaataaag tcctaggggt ggggggtgtg gcaagccggc ct 232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(383)  
 <223> n = A,T,C or G

<400> 82  
 aggcggggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactgggtgcc 60  
 agtaccagta ccaataacat gccagtgcc gtgccagcac cagtgggtggc ttcagtgtctg 120  
 gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctgggtg 180  
 ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240  
 gttaatcctg ccagtctttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300  
 agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360  
 ccatttcaaa aaaaaaaaaa aaa 383

<210> 83  
 <211> 494  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(494)  
 <223> n = A,T,C or G

<400> 83  
 accgaattgg gaccgctggc ttataagcga tcatgtcttc cagtattacc tcaacgagca 60  
 gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc 120  
 ccactctgct cggttctccc cagatgacaa ataactctga caccgaatca ccatcaagaa 180  
 acgtctcaag gtgctcatga ccagcaacc gcgcctgtc ctctgagggg ccttaaactg 240  
 atgtcttttc tgccacctgt taccctctgg agactccgta accaaactct tcggactgtg 300  
 agccctgatg cctttttgcc agccatactc tttggctcc agtctctcgt ggcgattgat 360  
 tatgcttggtg tgaggcaatc atggtggcat ccccatnaa gggaacacat ttganttttt 420  
 tttncatat tttaaattac naccagaata ntccagaata aatgaattga aaaactctta 480  
 aaaaaaaaaa aaaa 494

<210> 84  
 <211> 380  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 84  
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg caccgggacag tgacttccca 60  
 agtatectgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120  
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttcttg 180  
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgcaa ctggctgggtg 240  
 gtgctgtccc tcgtcatctt cctgctcgtg gccaacatcc tgctgggtcac ttgctcattg 300

ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360  
agcgttnccg cctcatccgg 380

<210> 85  
<211> 481  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(481)  
<223> n = A,T,C or G

<400> 85  
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60  
tnccatcgtc atactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca 120  
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180  
tgtgaaagga tctccagaag gagtgctcga tcttccccac acttttgatg actttattga 240  
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300  
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360  
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420  
aaagaacacc tcctggaagt gctngccgct cctcgteent tgggtggnggc gcntnccttt 480  
t 481

<210> 86  
<211> 472  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(472)  
<223> n = A,T,C or G

<400> 86  
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60  
acttggaaaa gcaacttnaa gcctggacac tgggtattaaa attcacaata tgcaacactt 120  
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taaggggatg 180  
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240  
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt 300  
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg 360  
atatntgagc ggaagantag cctttctact tcaccagaca caactccttt catattggga 420  
tgttnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

<210> 87  
<211> 413  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature

<222> (1)...(413)

<223> n = A,T,C or G

<400> 87

agaaaccagt	atctctnaaa	acaacctctc	ataccttggtg	gacctaat	ttt	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg	120
cctcttttgt	atctatatct	gtgaaagt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatgg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	cttgactagg	300
ggggacaaa	aaaagcnaaa	ctgaacatna	gaaacaattn	cctgggtgaga	aattncataa	360
acagaaattg	ggtngtatat	tgaaanann	catcattnaa	acgttttttt	ttt	413

<210> 89

<211> 448

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(448)

<223> n = A,T,C or G

<400> 88

cgcagcgggt	cctctctatc	tagctccagc	ctctcgccctg	ccccactccc	cgcgccccgc	60
gtcctagccn	accatggccg	ggccccctgcg	cgccccgcctg	ctcctgctgg	ccatcctggc	120
cgtggccctg	gccgtgagcc	ccgcggcccg	ctccagtcctc	ggcaagccgc	cgcgccctgg	180
gggaggccca	tggacccccg	gtggaagaag	aagggtgtgcg	gcgtgcactg	gactttgccc	240
tcggcnanta	caacaaaccc	gcaacnactt	ttacnagcn	cgcgctgcag	gttgtgccgc	300
cccaancaaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccccacnng	360
tttaccagaa	ccnagccaat	tngaacaatt	nccccctccat	aacagccccct	tttaaaaagg	420
gaancantcc	tgntcttttc	caaattttt				448

<210> 89

<211> 463

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattggggc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagt	ggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggtctag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttntttct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcctc	240
tttnatgttn	agacttgcc	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463



<210> 90  
 <211> 400  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(400)  
 <223> n = A,T,C or G

<400> 90  
 agggattgaa ggtctnttnt actgtcggac tgttcaccca ccaactctac aagttgctgt 60  
 cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat 120  
 tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact 180  
 tcctttgtta agacttcate tggtaaagtc ttaagttttg tagaaaggaa ttttaattgct 240  
 cgttctctaa caatgtcttc tccttgaagt atttggetga acaacccacc tnaagtcctt 300  
 ttgtgcaccc attttaaata tacttaatag ggcattggtn cactagggtta aattctgcaa 360  
 gagtcactctg tctgcaaaag ttgcgttagt atatctgcc 400

<210> 91  
 <211> 480  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(480)  
 <223> n = A,T,C or G

<400> 91  
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 ggtctacccc acatgggagc agcatgccgt agntatataa ggctattccc tgagtcagac 120  
 atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nnccgctctt 180  
 tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttaciaat tcacccacga 240  
 gacacttgaa aggtgtaaca aaycgactct tgcattgctt tttgtccctc cggcaccagt 300  
 tgtaataact aacccgctgg tttgcctcca tcacatttgt gatctgtagc tctggataca 360  
 tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctgtt 420  
 ngatcaggtt cccatttccc agtcogaatg ttcacatggc atatnttact tcccacaaaa 480

<210> 92  
 <211> 477  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(477)  
 <223> n = A,T,C or G

<400> 92

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atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact      60
gggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt      120
cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggccttg ggttgacggg      180
taantgcagg aagagggtga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc      240
tgcagcgaaa ctctctgatg gtcattgagcg ggaagcgaat gangcccagg gccttgccca      300
gaaccttccg cctgttctct ggcgctcacct gcagctgctg ccgctnacac tcggcctcgg      360
accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc      420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg      477

```

<210> 93

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 93

```

gaacggctgg accttgccct gcattgtgct gctggcagga ataccttggc aagcagctcc      60
agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc      120
cgcttcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn      180
tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata tcccaaacaa      240
caacaacaaa ataacatggt tgccgtgttna gttgtataaaa agtctgtgat tctgtatnta      300
aagaaaatat tactgttaca tatactgctt gcaantttctg tattttattgg tncctctgaa      360
ataaatatat tattaata                                     377

```

<210> 94

<211> 495

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(495)

<223> n = A,T,C or G

<400> 94

```

ccctttgagg ggtaggggtc cagttcccag tggaagaaac aggccaggag aantgcgtgc      60
cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgacctct      120
ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg      180
gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc      240
acgaggaana ggccctgant cctgggatca nacacctctt cacgtgtatc cccacacaaa      300
tgcaagctca ccaaggtccc ctctcagtc ctccctaca ccctgaacgg nactggcccc      360
acacccaccc agancancca cccgccatgg ggaatgtntc caaggaatcg cngggcaacg      420
tggactctng tcccnaagg gggcagaatc tccaatagan gganngaacc cttgctnana      480
aaaaaaaaa aaaaaa                                     495

```

<210> 95

<211> 472

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(472)  
<223> n = A,T,C or G

<400> 95  
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60  
cctctggaag ccttgcgcag agcggacttt gtaattgttg gagaataact gctgaatttt 120  
tagctgtttt gagttgattc gcaccactgc accacaaactc aatatgaaaa ctatttnact 180  
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240  
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta 300  
atcggcaaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360  
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420  
tttanttcan taatttcttt ccttgtttac gtaatttttg aaaagaatgc at 472

<210> 96  
<211> 476  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(476)  
<223> n = A,T,C or G

<400> 96  
ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60  
gtggtgaaat ttcaaaaatta tatgtaactt ctactagttt tactttctcc cccaagtctt 120  
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180  
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat 240  
agctggatac atacngtggg agttctataa actcatacct cagtgggact naaccaaaat 300  
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360  
gcaggtactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420  
tacaaagtct atcttctcta nangtctgtn aaggaacaat ttaatcttct agcttt 476

<210> 97  
<211> 479  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(479)  
<223> n = A,T,C or G

<400> 97  
actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaatggata 60  
aaataatgct gcaaacttaa tgttcttatg caaaatggaa cgctaataa acacagctta 120

caatcgcaaa	tcaaaactca	caagtgctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaaat	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnntttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tganccatc	479

&lt;210&gt; 98

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 98

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtcc	tgctactat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttctctac	ggatgagaga	ctggctcaag	aatatctctc	tycagcttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

&lt;210&gt; 99

&lt;211&gt; 171

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 99

gtggccgcgc	gcaggtgttt	cctcgtagcg	cagggccccc	ttccttcccc	aggcgtccct	60
cggcgccctc	gcgggcccga	ggaggagcgg	ctggcggytg	gggggagtgt	gaccaccct	120
cggtgagaaa	agccttctct	agcgatctga	gaggcgtgcc	ttgggggtac	c	171

&lt;210&gt; 100

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 100

cggccgcaag	tgcaactcca	gctggggccg	tgcggaacga	gattctgcc	gcagttggtc	60
cgactgcgac	gacggcgggc	gcgacagtcg	caggtgcagc	gcggggccct	ggggtcttgc	120
aaggctgagc	tgacgcgcga	gaggtcgtgt	cacgtccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gcccctcggg	aagggcggcc	240
cgagagatac	gcaggtgcag	gtggccgcc				269

&lt;210&gt; 101

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 101

tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttattttgca	60
------------	------------	------------	------------	------------	------------	----

gctagcaagg taacagggta gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg	120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaacgaagca aataacatgg	180
agtgggtgca cctccctgt agaacctggg tacaaagctt ggggcagttc acctggctg	240
tgaccgtcat tttcttgaca tcaatgttat tagaagtcag gatattcttt agagagtcca	300
ctgttctgga gggagattag ggtttcttgc caaatccaac aaaatccact gaaaaagtgtg	360
gatgatcagt acgaataccg aggcattatc tcatatcggt ggcca	405

&lt;210&gt; 102

&lt;211&gt; 470

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 102

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	60
ggcacttaat ccatttttat ttcaaaatgt ctacaaattt aatcccatta tacgggtat	120
tcaaaatcta aattattcaa attagccaaa tctttaccaa ataataccca azaatcaaaa	180
atatacttct tttagcaaac ttgttacata aattaaaaaa atatatacgg ctgggtgttt	240
caaagtacaa ttatcttaac actgcaaaaca ttttaaggaa ctaaaataaa aaaaaacact	300
ccgcaaaggt taaagggaac aacaaattct tttaacaacac cattataaaa atcatatctc	360
aaatcttagg ggaatatata cttcacacgg gatcttaact tttactcact ttgtttat	420
ttttaaacca ttgtttgggc ccaacacaat ggaatcccc ctggactagt	470

&lt;210&gt; 103

&lt;211&gt; 581

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 103

tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttattttact	60
tacacatatt tattttataa ttgggtattag atattcaaaa ggcagctttt aaaatcaaac	120
taaattgaaa ctgccttaga tacataatc tttaggaatta gcttaaaatc tgccataagt	180
gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atccaaatc	240
atttttcttg tctttaaaat tatctaatct ttccattttt tccctattcc aagtcaat	300
gtttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttctaaa	360
agggaaaaca ggaagagaaa tggcacacaa aacaaacatt ttatattcat atttctacct	420
acgttaataa aatagcattt tgtgaagcca gctcaaaaga aggccttagat ccttttatgt	480
ccatttttagt cactaaacga tatcaaagtg ccagaatgca aaagggttgt gaacatttat	540
tcaaaagcta atataagata ttccacatac tcatctttct g	581

&lt;210&gt; 104

&lt;211&gt; 578

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 104

tttttttttt tttttttttt tttttctctt cttttttttt gaaatgagga tggagttttt	60
cactctctag atagggcatt aagaaaactc atctttccag ctttaaaata acaatcaaat	120
ctcttatgct atatcatatt ttaagttaaa ctaatgagtc actggcttat cttctcctga	180
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gaggtttttc ttctctatct acacatatat ttccatgtga atttgtatca aacctttatt	300
ttcatgcaaa ctagaaaata atgtttcttt tgcataagag aagagaacaa tatagcatta	360

caaaactgct	caaattgttt	gttaagttat	ccattataat	tagttggcag	gagctaatac	420
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aaaggaacat	tttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tgttattatt	cctagcccaa	cacaatgg			578

&lt;210&gt; 105

&lt;211&gt; 538

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 105

tttttttttt	tttttcagta	ataatcagaa	caatatttat	ttttatattt	aaaattcata	60
gaaaagtgcc	tiacatttaa	taaaagtttg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
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ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

&lt;210&gt; 106

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atttattagc	tctycaactt	acatatitaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgccca	tiattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gttttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatccccat	gtgatattgt	gtaratgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agactgtgtc	tgtctgaatc	aaatgatctg	acctatcctc	ggtaggcaaga	actcttcgaa	420
ccgcttcctc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

&lt;210&gt; 107

&lt;211&gt; 1621

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 107

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cttccgccgc	ggtgtcatgg	agaaactcca	gctggggcca	gagattctgc	agcgggaaaa	300
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tggtgagaat	ccgtatgccc	cgctgaatct	cctggctgac	tttgctgggtg	gtggccttat	480
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gaaatcgagt ctgtgggaag cacctcgagy acagaacatg ttggatggtg gagcaccttt 660
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atttacactc ttgattctac aatgtagaaa atgaggaaaat gccacaaaatt gtatgggtgat 1560
aaaagtcacg tgaacaacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
a 1621

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<210> 108

<211> 382

<212> PRT

<213> Homo sapien

<400> 108

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Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro
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20          25          30
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35          40          45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50          55          60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65          70          75          80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85          90          95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100         105         110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115         120         125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130         135         140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145         150         155         160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165         170         175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180         185         190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg

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195	200	205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg		
210	215	220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe		
225	230	235
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro		
245	250	255
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala		
260	265	270
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp		
275	280	285
Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val		
290	295	300
His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu		
305	310	315
Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala		
325	330	335
Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu		
340	345	350
Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn		
355	360	365
Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu		
370	375	380

&lt;210&gt; 109

&lt;211&gt; 1524

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 109

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&lt;210&gt; 110

&lt;211&gt; 3410

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 110

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aaaaaaaaara	aaaaaaaaaa	aaaaaaaaaa	aaaaaaataa	aaaaaaaaaa		3410

&lt;210&gt; 111

&lt;211&gt; 1289

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 111

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ctgagagcaa	gtgtgcccct	gtgacgttct	tcttcatcct	cctcctcatc	ttcattgctg	420
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tgttacaatg	ttaaaaaaaa	aaaaaaaaaa				1289

&lt;210&gt; 112

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 112

Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln  
 1 5 10 15  
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe  
 20 25 30  
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala  
 35 40 45  
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu  
 50 55 60  
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro  
 65 70 75 80  
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser  
 85 90 95  
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys  
 100 105 110  
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe  
 115 120 125  
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe  
 130 135 140  
 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys  
 145 150 155 160  
 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu  
 165 170 175  
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln  
 180 185 190  
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu  
 195 200 205  
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr  
 210 215 220  
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp  
 225 230 235 240  
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val  
 245 250 255  
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg  
 260 265 270  
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly  
 275 280 285  
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly  
 290 295 300  
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp  
 305 310 315

&lt;210&gt; 113

&lt;211&gt; 553

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 113

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala



Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu  
 420 425 430  
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala  
 435 440 445  
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser  
 450 455 460  
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala  
 465 470 475 480  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 485 490 495  
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser  
 500 505 510  
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala  
 515 520 525  
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp  
 530 535 540  
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
 545 550

&lt;210&gt; 114

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu  
 1 5 10 15  
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val  
 20 25 30  
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser  
 35 40 45  
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly  
 50 55 60  
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr  
 65 70 75 80  
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile  
 85 90 95  
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr  
 100 105 110  
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys  
 115 120 125  
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met  
 130 135 140  
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp  
 145 150 155 160  
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn  
 165 170 175  
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala  
 180 185 190  
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile  
 195 200 205

Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly  
 210 215 220  
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu  
 225 230 235 240  
 Gln

<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115  
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 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccactctctga 180  
 actggtagaa aaacatctga agagctagtc tctcagcctc tgacagggtga attggatggt 240  
 tctcagaacc atttcacca gacagcctgt ttctatcctg tttataaat tagtttggtg 300  
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 ttagtc 366

<210> 116  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 116  
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 gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120  
 agactttact attttcatat ttttaagacac atgattttat ctatttttagt aacctgggtc 180  
 atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240  
 tcaatctnga actatctana tcacagacat ttctatttct tt 282

<210> 117  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(305)  
 <223> n = A,T,C or G

<400> 117  
 acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60  
 tattttatct cctctctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120

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<210> 118
<211> 71
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(71)
<223> n = A,T,C or G
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<210> 119
<211> 212
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G
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<210> 120
<211> 90
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(90)
<223> n = A,T,C or G
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<210> 121
<211> 218
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<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(218)  
<223> n = A,T,C or G

<400> 121  
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gaataagatt tgctaaaaga ttgggggcta aaacatgggtt attgggagac atttctgaag 120  
atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180  
agcatanact tcatgtgggg atancagcta ccttgta 218

<210> 122  
<211> 171  
<212> DNA  
<213> Homo sapien

<400> 122  
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catttgtag ctcatggaac aggaagtcgg atgggggggc atcttcagtg ctgcatgagt 120  
caccaccccg gcgggggtcat ctgtgccaca ggccctgtt gacagtgcgg t 171

<210> 123  
<211> 76  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(76)  
<223> n = A,T,C or G

<400> 123  
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ttatcaanta ttgtgt 76

<210> 124  
<211> 131  
<212> DNA  
<213> Homo sapien

<400> 124  
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caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
ttaagatttg t 131

<210> 125  
<211> 432  
<212> DNA

ggttcttttg ggaattcctt tacgatngcc 180



<213> Homo sapien

<400> 125

```
actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg      60
cttgaaaaag aggtgatagc ttttcagagg acttggtgact ttgtctcaga tgctgaagaa     120
ctacagtctg cttttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat     180
ttgcttcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg     240
ctcttgaagt atcagtcact ttgagaatg tttcttagtt actgcatact tcatggatcc     300
catggtgggg gtcttgcac tgtaagaatg gaattgattt tgcttttgca agaattctcag     360
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgctcttc     420
ctctttgctt gt                                     432
```

<210> 126

<211> 112

<212> DNA

<213> Homo sapien

<400> 126

```
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat      60
agtaagaatg atatttcccc ccagggatca ccaaataatt ataaaaattt gt             112
```

<210> 127

<211> 54

<212> DNA

<213> Homo sapien

<400> 127

```
accacgaaac cacaacaag atggaagcat caatccactt gcccaagcaca gcag           54
```

<210> 128

<211> 323

<212> DNA

<213> Homo sapien

<400> 128

```
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc      60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca     120
ttctctctga agtctaggtt acccattttg gggacccatt ataggcaata aacacagttc     180
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt     240
ttcctgcaaa aggctcactc agtcccttgc ttgtcagtg gactgggctc cccagggcct     300
aggctgcctt cttttccatg tcc                                     323
```

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(192)

<223> n = A,T,C or G

CCCTTTGCTT GT

<400> 129  
 acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac 60  
 tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc 120  
 tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg 180  
 gataaaca aa gt 192

<210> 130  
 <211> 362  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(362)  
 <223> n = A,T,C or G

<400> 130  
 ccctttttta tgggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60  
 tataatgacg caacaaaaag gtgctgttta gtccatggt tcagtttatg cccctgacaa 120  
 gtttccattg tgttttgccg atcttctggc taatcgtggt atcctccatg ttattagtaa 180  
 ttctgtattc ctttttgta acgctggta gatgtaacct gctangaggc taactttata 240  
 cttatttaaa agctcttatt ttgtgggtcat taaaatggca atctatgtgc agcactttat 300  
 tgcagcagga agcactgtg gggtgggtgt aaagctctt gctaatttta aaaagtaatg 360  
 gg 362

<210> 131  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 131  
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca 60  
 gtangactgg tatgggttga gctgtccaga taaaacatt tgaagagctc caaaatgaya 120  
 gttctccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180  
 ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttgggtttatt atccaactaa 240  
 ctccatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc 300  
 atanaaggat tgggtgaagc tggcgttggt gt 332

<210> 132  
 <211> 322  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 132

```
acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc      60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat      120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt      180
tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg      240
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct      300
gtaacaatct acaattgggt ca                                           322
```

<210> 133

<211> 278

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 133

```
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt      60
cttgtttttc tttccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta      120
ctatttaaaa aaaatcacia atctttccct ttaagctatg ttnaattcaa actattcctg      180
ctattcctgt tttgtcaaag aaattatatt ttccaaaata tgtntatttg tttyatgggt      240
cccacgaaac actaataaaa accacagaga ccagcctg                               278
```

<210> 134

<211> 121

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(121)

<223> n = A,T,C or G

<400> 134

```
gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca      60
tgattctctg aggttaaact tggttttcaa atgttatatt tacttgattt ttgcttttgg      120
t                                           121
```

<210> 135

<211> 350

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(350)

Submitted to EMBL

<400> 135

<210> 136

<211> 399

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$ 

<221> misc feature

<222> (1) ... (399)

<223> n = A, T, C or G

<400> 136

tgtaccgtga	agacgacaga	agttgcatgg	cagggaacagg	gcagggccga	ggccaggggt	60
gctgtgattg	tatccgaata	ntcctcgtga	gaaaagataa	tgagatgacg	tgagcagcct	120
gcagacttgt	gtctgccttc	aanaagccag	acaggaaggc	cctgcctgcc	ttggctctga	180
cctggcgggc	agccagccag	ccacagggtgg	gcttcttctc	tttgtggtga	caacnccaag	240
aaaactgcag	aggcccaggg	tcagggtgtna	gtgggtangt	gaccataaaa	caccaggtgc	300
tcccaggaac	ccgggcaaag	gccatcccca	cctacagcca	gcattgcacac	tggcgtgatg	360
ggtgcagang	gatgaagcag	ccagntgttc	tqctgtggt			399

<210> 137

<211> 165

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (165)$ 

<223> n = A, T, C or G

<400> 137

```
actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcac gatggtgtgt      60
ggaggaaagt tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga      120
ttggctggtc ccactggtgg tcactgtcat tgggtggggt cctgt                165
```

<210> 138

<211> 338

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

<222> (1)...(338)

<223> n = A,T,C or G

<400> 138

actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc	60
ttaactttct cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac	120
tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg	180
tcatgtgttt ccagccacac caaaagggtgc ttgggggtgga gggctggggg catananggt	240
cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa	300
aaaaactgat gccttttttt ttttttttg taaaattc	338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg gtttttgga tctggtttgc ctatagccga ggcactttg acagaacaaa	60
gaaagggact tcagtaaga aggtgattta cagccagcct agtgcgccga gtgaaggaga	120
attcaaacag acctcgatc tctgggtgtg agcctggctg gtcacccgc tatcatctgc	180
atttgctta ctcaggtgct accggactcc ggcacctgat gtctgtagtt tcacaggatg	240
ccttatttgt cttctacacc ccacagggcc cctacttct tcggatgtgt ttttaataat	300
gtcagctatg tgcacctcc tcttcatgc cctcctccc tttctacca ctgctgagtg	360
gcctggaact tgtttaagt gt	382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(200)

<223> n = A,T,C or G

<400> 140

accaaactt ctttctgttg tggtngattt tactataggg gttngcttn ttctaaanat	60
acttttcatt taacancttt tggttaagtgt caggctgcac ttgctccat anaattattg	120
ttttcacatt tcaacttgta tgtgtttgtc tottanagca ttggtgaaat cacatatttt	180
atattcagca taaaggagaa	200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(335)

<223> n = A,T,C or G

&lt;400&gt; 141

```

actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg      60
gggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc agggtttgtt      120
atgcatgtag agaaccctaaa ctaattttatt aaacaggata gaaacaggct gtctgggtga      180
aatggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg      240
tttttctacc agttcagaga tnggttaatg actantttcca atgggggaaaa agcaagatgg      300
attcacaacac caagtaattt taaacaaaaga cactt                                335

```

&lt;210&gt; 142

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(459)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 142

```

accagggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta      60
gggttggttta aagacaaacc agcttaatat caagagaaat tgtgaccttt catggagtat      120
ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca      180
cacatgggcc aacaacactc aaataataaa tcaaataatna tcagatgtta aagattggtc      240
ttcaaacatc atagccaatg atgccccgct tgccataat ctctccgaca taaaaccaca      300
tcaaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctggttga      360
agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct      420
cagcanggggt gggaggaacc agctcaacct tggcgctant                                459

```

&lt;210&gt; 143

&lt;211&gt; 140

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 143

```

acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg      60
aaatccaaac agtctctcct agaaaggaat agtgtcacca accccaccca tctccctgag      120
accatccgac ttcctctgtg                                140

```

&lt;210&gt; 144

&lt;211&gt; 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(164)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 144

```

acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct      60
atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg      120

```

aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt

164

<210> 145  
 <211> 303  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 145  
 acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcttaaacia 60  
 actggagggt atttataccc aattatccca ttcattaaca tgcctcctc ctcaggctat 120  
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180  
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240  
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300  
 caa 303

<210> 146  
 <211> 327  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(327)  
 <223> n = A,T,C or G

<400> 146  
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac 60  
 actggcctgg agtgactcat tgctctggtt ggttgagaga gtcctttgc caacaggcct 120  
 ccaagtcagg gctgggattt gtttcctttc cacattctag caacaatatg ctggccactt 180  
 cctgaacagg gaggggtggga ggagccagca tggaacaagc tgccactttc taaagtagcc 240  
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300  
 taggggtgag ctgtgtgact ctatggt 327

<210> 147  
 <211> 173  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(173)  
 <223> n = A,T,C or G

<400> 147  
 acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg 60  
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120

atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt 173

<210> 148  
 <211> 477  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(477)  
 <223> n = A,T,C or G

<400> 148  
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60  
 atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120  
 gccctactac ctgctgcaat aatcacattc ccttctctgtc ctgacctga agccattggg 180  
 gtgggtcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240  
 nccanccac ctcaccgacc ccatactctt acacagctac ctcttgctc tctaacccca 300  
 tagattatnt ccaaattcag tcaattaagt tactattaac actctaccog acatgtccag 360  
 caccactggt aagccttctc cagccaacac acacacacac acacncacac acacacatat 420  
 ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atggtgg 477

<210> 149  
 <211> 207  
 <212> DNA  
 <213> Homo sapien

<400> 149  
 acagttgtat tataatatca agaaataaac ttgcaatgag agcattttaag agggaagaac 60  
 taacgtatatt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120  
 gatgataaat aagagtcagc caggtaagtg ggtgggtgtgg tatgggcaca gtgaagaaca 180  
 tttcaggcag agggaacagc agtgaaa 207

<210> 150  
 <211> 111  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(111)  
 <223> n = A,T,C or G

<400> 150  
 accttgatatt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60  
 cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151  
 <211> 196  
 <212> DNA  
 <213> Homo sapien



<400> 151  
 agcgcggcag gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac 60  
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120  
 ggataccaac cggaaaaccc ctatcccgcg cagcccactg tgggtcccac tgtctacgag 180  
 gtgcacccgg ctccagt 196

<210> 152  
 <211> 132  
 <212> DNA  
 <213> Homo sapien

<400> 152  
 acagcacttt cacatgtaag aaggagagaa ttccataatg taggagaaag ataacagAAC 60  
 cttccctttt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag 120  
 gagggagttt gt 132

<210> 153  
 <211> 285  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(285)  
 <223> n = A,T,C or G

<400> 153  
 acaanaccca nganaggcca ctggccgtgg tgteatggcc tccaaacatg aaagtgtcag 60  
 cttctgtctt tatgtcctca tctgacaact ctttaaccatt tttatcctcg ctccagcagga 120  
 gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180  
 cctggctagt gaggggtgcgg cgcgcgtcct ggatgacggc atctgtgaag tccgtgcacca 240  
 gtctgcaggc cctgtggaag cgcgcgtccac acggagtnag gaatt 285

<210> 154  
 <211> 333  
 <212> DNA  
 <213> Homo sapien

<400> 154  
 accacagtcc tgttggggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60  
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120  
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180  
 attggcacag gagtcgaagg tgttcagctc cctcctccg tggaacgaga ctctgatttg 240  
 agtttcacaa attctcgggc cacctcgtca ttgctcctct gaaataaaat ccggagaatg 300  
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

<400> 155  
 actggaata ataaaacca catcacagt ttgtgtcaaa gatcatcagg gcatggatgg 60  
 gaaagtgctt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120  
 ttgaatcacg gtgcatacaa actctcctgc ctgtcctccc tgggccccag cccagcccc 180  
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct 240  
 gcttttagcc tccanaagtt tctctgaagc caaccaaac tctangtgta aggcattgctg 300  
 gccctggt 308

<210> 156  
 <211> 295  
 <212> DNA  
 <213> Homo sapien

<400> 156  
 accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60  
 ttattgatta ctgagagAAC tgtagacat ttagttgaag attttctaca caggaaactga 120  
 gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt 180  
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240  
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157  
 <211> 126  
 <212> DNA  
 <213> Homo sapien

<400> 157  
 acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60  
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tctctgtccc 120  
 cttagt 126

<210> 158  
 <211> 442  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(442)  
 <223> n = A,T,C or G

<400> 158  
 acccactggt cttggaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60  
 aanccagcag gctgccccta gtcagtcctt ccttcacagag aaaaagagat ttgagaaagt 120  
 gcctgggttaa ttcaccatta atttctccc ccaaactctc tgagtcttcc cttaatattt 180  
 ctgggtggtc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240

```

natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
ccaacctgtg tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
tgttcattct ctgatgtcct gt 442

```

<210> 159

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

```

acttccaggt aacgttggtg tttccgttga gcctgaactg atgggtgacg ttgtaggttc 60
tccaacaaga actgaggttg cagagcgggt aggggaagagt gctgttccag ttgcacctgg 120
gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaag 180
gtgtgttggt gganttgagc tcgggcggct gtggtaggtt gtgggctctt caacaggggc 240
tgctgtgggt cggggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt 300
antanattct tcctgaaggc cagcgcttgt ggagctggca nyggtcantg ttgtgtgtaa 360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn 420
tcaggttaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc 480
aagggaataa gctgtggt 498

```

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

```

acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac 60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct 120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc 180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgaccca gatgcctctc 240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg 300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggtg gaggttgatt tctaacgaaa 360
cttgtagaat gaagcctgga 380

```

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

```
actccacatc cccctctgagc aggcgggtgt cgttcaaggt gtatttggcc ttgcctgtca      60
cactgtccac tggccccctta tccacttggt gcttaatccc tcgaaagagc atgt          114
```

```
<210> 162
<211> 177
<212> DNA
<213> Homo sapien
```

```
<400> 162
actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa      60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt      120
tggtgatata taacttggca ataaccacgt ctggtgatac ataaaactac tcactgt        177
```

```
<210> 163
<211> 137
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G
```

```
<400> 163
catttatata gacagggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac      60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt      120
catcagcggc atgatgt          137
```

```
<210> 164
<211> 469
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G
```

```
<400> 164
cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta      60
tgcaatgcat catgctatct catacctaata gagggaggtc caggagattc aaccaggaaa      120
tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt      180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg      240
ggttatgaca aagacaactg ccaagaatc ttcaagaagg aggactgcaa gtatatcgtg      300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct      360
tctagtaggc acagggctcc caggccaggc ctcatctctc tctggcctct aatagtcatt      420
gattgtgtag ccattgcctat cagtaaaaag atntttgagc aaacacttt          469
```

```
<210> 165
<211> 195
<212> DNA
```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(195)

<223> n = A,T,C or G

<400> 165

acagtttttt	atanatatcg	acattgccgg	cacttgtgtt	cagtttcata	aagctgggtg	60
atccgctgtc	atccactatt	ccttgggctag	agtaaaaaatt	attcttatag	cccatgtccc	120
tgcaggccgc	ccgcccgtag	ttctcgrtcc	agtcgtcttg	gcacacaggg	tgccaggact	180
tcctctgaga	tgagt					195

<210> 166

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 166

acatcttagt	agtgtggcac	atcagggggc	catcagggtc	acagtcactc	atagcctcgc	60
cgaggctcga	gtccacacca	ccggtgttagg	tgtgctcaat	cttgggcttg	gcgcccacct	120
ttggagaagg	gatatgctgc	acacacatgt	ccacaaagcc	tgtgaactcg	ccaaagaatt	180
tttgagacc	agcctgagca	agggggcgat	gttcagcttc	agctcctcct	tcgtcagggtg	240
gatgccaacc	tcgtctangg	tcggtgggaa	gctgggtgtcc	acntcaccta	caacctgggc	300
gangatctta	taaagaggct	ccnagataaa	ctccacgaaa	cttctctggg	agctgctagt	360
nggggccttt	ttggtgaact	ttc				383

<210> 167

<211> 247

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(247)

<223> n = A,T,C or G

<400> 167

acagagccag	accttggcca	taaatgaanc	agagattaag	actaaacccc	aagtcganat	60
tggagcagaa	actggagcaa	gaagtgggcc	tggggctgaa	gtagagacca	aggccactgc	120
tatanccata	cacagagcca	actctcaggc	caaggcnatg	gttggggcag	anccagagac	180
tcaatctgan	tccaaagtgg	tggctggaac	actgggtcatg	acanaggcag	tgactctgac	240
tgangtc						247

<210> 168

<211> 273

65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

<212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> n = A,T,C or G

<400> 168  
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60  
 aatccctcan ccttggttctt cacnactgtc tatactgana gtgtcatggt tccacaaagg 120  
 gctgacacct gagcctgnat tttcactcat ccttgagaag ccctttccag taggggtgggc 180  
 aattcccaac ttccttgcca caagcttccc aggcctttctc ccctggaaaa ctccagcttg 240  
 agtcccagat acactcatgg gctgcctctg gca 273

<210> 169  
 <211> 431  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 169  
 acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60  
 agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acaggttcta 120  
 ctactgtcaa atgaccccc atacttcctc aaaggctgtg gtaagttttg cacaggtgag 180  
 ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccacactgac 240  
 cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctgg gcaccagctc 300  
 acgcacatca ctgacaaccg ggatggaaaa agaantgcca actttcatat atccaactgg 360  
 aaagtgatct gatactggat tcttaattac cttcaaaagc ttctggggggc catcagctgc 420  
 tcgaacactg a 431

<210> 170  
 <211> 266  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(266)  
 <223> n = A,T,C or G

<400> 170  
 acctgtgggc tgggctgtta tgcctgtgcc ggctgctgaa agggagttca gaggtggagc 60  
 tcaaggagct ctgcaggcat tttgccaanc ctctccanag canagggagc aacctact 120  
 ccccgctaga aagacaccag attggagtc tgggaggggg agttgggggtg ggcatttgat 180  
 gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct 240  
 tcaaagctag gggctctggca ggtgga 266

<210> 171  
 <211> 1248  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1248)  
 <223> n = A,T,C or G

<400> 171  
 ggcagccaaa tcataaacgg cgaggactgc agcccgcact cgcagccctg gcaggcggca 60  
 ctgggtcatgg aaaacgaatt gttctgctcg ggcgctctgg tgcattccgca gtgggtgctg 120  
 tcagccgcac actgtttcca gaagtgaagt cagagctcct acaccatcgg gctgggcctg 180  
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
 cggcaccag agtacaacag acccttgctc gctaaccgacc tcatgctcat caagttggac 300  
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgcctacc 360  
 gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
 gtgctgcagt gcgtgaacgt gtcggtgggtg tctgaggagg tctgcagtaa gctctatgac 480  
 ccgctgtacc accccagcat gttctgcgcc ggcgaggagg aagaccagaa ggactcctgc 540  
 aacggtgact ctgggggggc cctgatctgc aacgggtact tgcagggcct tgytctttc 600  
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660  
 actgagtgya tagagaaaac cgtccaggcc agttaactct ggggactggg aaccatgaa 720  
 attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agccctcct 780  
 cctcaggcc caggagtcca ggccccagc cctcctccc tcaaaccaag ggtacagatc 840  
 ccagccccc cctccctcag acccaggagt ccagaccccc cagccctcc tccctcagac 900  
 ccaggagtcc agccctcct cctcagacc caggagtcca gacccctcag cccctcctcc 960  
 ctcagaccca ggggtccagg cccccaacct cctcctccc agactcagag gtccaagccc 1020  
 ccaacccntc attccccaga ccagagggtc caggtcctcag cccctcntcc ctgagaccca 1080  
 gcgggtccaat gccacctaga ctntccctgt acacagtgcc ccttgtggc acgttgaccc 1140  
 aaccttacca gttgggtttt catttttngt ccttttccc tagatccaga aataaagttt 1200  
 aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1248

<210> 172  
 <211> 159  
 <212> PRT  
 <213> Homo sapien  
  
 <220>  
 <221> VARIANT  
 <222> (1)...(159)  
 <223> Xaa = Any Amino Acid

<400> 172  
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro  
 1 5 10 15  
 Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser  
 20 25 30  
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr  
 35 40 45

Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly  
 50 55 60  
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu  
 65 70 75 80  
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe  
 85 90 95  
 Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser  
 100 105 110  
 Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe  
 115 120 125  
 Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn  
 130 135 140  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 145 150 155

<210> 173  
 <211> 1265  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1265)  
 <223> n = A,T,C or G

<400> 173  
 ggcagcccgc actcgcagcc ctggcaggcg gcactgggtca tggaaaacga attgtttctgc 60  
 tcggggcgccc tgggtgcatcc gcagtggggtg ctgtcagccg cacactgttt ccagaactcc 120  
 tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg 180  
 gtggaggcca gccctctccgt acggcaccca gagtacaaca gaccttgct cgctaacgac 240  
 ctcatgtctca tcaagttgga cgaatccgtg tccgagtcgt acaccatccg gagcatcagc 300  
 attgcttcgc agtgccttac cgcggggaac tcttgccctg tttctggctg ggggtctgctg 360  
 gcgaacgggtg agctcacggg tgtgtgtctg cctcttcaa ggaggtcctc tgcccagtcg 420  
 cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga 480  
 acgtgtcggg ggtgtctgag gaggtctgca gtaagctcta tgacccgctg taccaccca 540  
 gcatgttctg cgcggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg 600  
 ggccccgat ctgcaacggg tacttgaggg gccttgtgtc tttcggaaaa gccccgtgtg 660  
 gccaaagtgg cgtgccaggt gtctacacca acctctgcaa attcactgag tggatagaga 720  
 aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac 780  
 atcctgcgga aggaattcag gaatatctgt tcccagcccc tctcctccta ggcccaggag 840  
 tccaggcccc cagccccctc tccctcaaac caagggtaca gatccccagc cctcctccc 900  
 tcagacccag gagtccagac ccccagccc ctctcctc agacccagga gtccagcccc 960  
 tctcctntca gaccaggag tccagacccc ccagcccctc ctccctcaga cccaggggtt 1020  
 gagggcccca accctcctc ctccagagtc agagggtccaa gcccccaacc cctcggtccc 1080  
 cagacccaga ggttnaggtc ccagcccctc ttcctcaga cccagnggtc caatgccacc 1140  
 tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggg 1200  
 ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa 1260  
 aaaaa 1265

<210> 174  
 <211> 1459



<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(1459)  
<223> n = A,T,C or G

<400> 174

```

gggcagccgc acactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggc 60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg 120
tacggcacc cagagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg 180
acgaatccgt gtcogagtct gacaccatcc ggagcatcag cattgtttcg cagtgcctta 240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg 300
gtgtgtgtct gccctcttca aggaggtcct ctgccagtc gcgggggctg acccagagct 360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga 420
ngaggtctgc antaagctct atgaccgcct gtaccacccc ancatgttct gcgccggcgg 480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact 540
caggggaagg tggagaaggg ggagacagay acacacaggg ccgcatggcg agatgcagag 600
atggagagac acacagggag acagtgacaa cttagagagag aaactgagag aaacagagaa 660
ataaacacag gaataaagay aagcaaagga agagagaaac agaaacagac atggggaggc 720
agaaacacac acacatagaa atgcagttga ccttccaaca gcattggggc tgagggcggt 780
gacctccacc caatagaaaa tctctttata acttttgact ccccaaaaac ctgactagaa 840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt 900
tttatgcatt catgatatac ctttgttggg attttttgat atttctaagc tacacagttc 960
gtctgtgaat ttttttaaat tgttgcaact ctccataaat tttcttgatg tgtttattga 1020
aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaay ggtcaacctg 1080
gtaccagag ggaacagtg acacagatcc atagaggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtggctcat gctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgaggg aaggagtcca agaccagcct ggccaaaatg 1260
gtgaaatcct gctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgaagt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

<210> 175  
<211> 1167  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(1167)  
<223> n = A,T,C or G

<400> 175

```

gcgcagccct ggcaggcggc actggctcat gaaaacgaat tgttctgctc gggcgtcctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatccgg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300

```

```

tgcctaccg cggggaactc ttgcctcgtn tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgetgcactg cgtgaacgtg tgggtgggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgtgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtcta caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gccccctctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780
gtacagatcc ccagccctc ctccctcaga cccaggagtc cagacccccc agccctcnt 840
ccntcagacc caggagtcca gccccctctc cntcagacgc aggagtccag acccccagc 900
ccntcntccg tcagaccagc ggggtgcaggc ccccaacccc tcntccntca gagtccagg 960
tccaagcccc caacccctcg ttccccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaatg ccacctagan tntccctgta cacagtgcc ccttgtggca 1080
ngttgaccca accttaccag ttggtttttc attttttgc cctttccctt agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

<210> 176

<211> 205

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(205)

<223> Xaa = Any Amino Acid

<400> 176

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Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1          5          10          15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50          55          60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65          70          75          80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85          90          95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
100          105          110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115          120          125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
130          135          140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
145          150          155          160
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
165          170          175
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
180          185          190

```

Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser  
 195 200 205

<210> 177  
 <211> 1119  
 <212> DNA  
 <213> Homo sapien

<400> 177  
 gcgcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc 60  
 gtccctgggtgc atccgcagtg ggtgctgtca ggcgcacact gttccagaa ctccacacc 120  
 atcgggctgg gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatgggtggag 180  
 gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgcctcatg 240  
 ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct 300  
 tcgcagtgcc ctaccgcggg gaactcttgc ctgctttctg gctgggggtct gctggcgaac 360  
 gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420  
 caaccctggc aggggtgtac catttcggca acttcagtg caaggacgtc ctgctgcac 480  
 ctactgggt gctcactact gctcactgca taccgggaa cactgtgatc aactagccag 540  
 caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600  
 actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660  
 cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc 720  
 tgacctacag aggtgaggga tcatatagct ctccaaggat gctgggtactc cctccacaaa 780  
 ttcatttctc ctgttgtagt gaaaggtgcg cctctggag cctcccaggg tgggtgtgca 840  
 ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg 900  
 ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cttcatgca 960  
 accacctcag gactcctgga ttctctgctt agttgagctc ctgcatgctg cctccttggg 1020  
 gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080  
 ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaaa 1119

<210> 178  
 <211> 164  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(164)  
 <223> Xaa = Any Amino Acid

<400> 178  
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp  
 1 5 10 15  
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
 20 25 30  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
 35 40 45  
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu  
 50 55 60  
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
 65 70 75 80  
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly

```
<210> 179
<211> 250
<212> DNA
<213> Homo sapien
```

```
<210> 180
<211> 202
<212> DNA
<213> Homo sapien
```

```
<210> 181
<211> 558
<212> DNA
<213> Homo sapien
```

```
<400> 181
tgkt naggtttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg      60
tagg cagtgc tagt aatttcytcg taatgattct gttattactt tctnattct      120
ctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa      180
gtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca      240
tgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaaac      300
```



```

accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatcac ctcaacgagc 60
agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
cccacctcgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240
tgatgtcttt tctgccacct gttacccctc ggagactccg taaccaaact cttcggactg 300
tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
attatgcttg tgtgaggcaa tcatggtggc atcaccata aagggaaacac atttgacttt 420
tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
taaaaaaaaa aaaaaa 496

```

```

<210> 185
<211> 384
<212> DNA
<213> Homo sapien

```

```

<400> 185
gctggtagcc tatggcgkgg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
gggcacaccc tccctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
tggtgctgct cctcgtcatc ttctgctcg tggccaacat cctgctggtc aacttgctca 300
ttgccatgtt cagttacaca ttccggcaaag tacagggcaa cagcgatctc tactgggaag 360
gcgcagcgtt accgcctcat ccgg 384

```

```

<210> 186
<211> 577
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(577)
<223> n = A,T,C or G

```

```

<400> 186
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctcgc ttcataccgc 60
tnccatcgtc atactgtagg ttgtccacca cytcctggca tcttggggcg gcntaatatt 120
ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttccgc 180
tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc cccacacttt tgatgacttt 240
attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
cagccctatc atgcggttga mcgtgccgaa garcaccgag ccttggtgtg gggkkgag 360
ctcaccacaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgcccag 420
gtggaaaaag amcamctcct ggargtgctn gccgctcctc gtcmgttggt ggcagcgctw 480
tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcacatcc 540
aagatntcgc acagcactna tccagttggg attaat 577

```

```

<210> 187
<211> 534
<212> DNA
<213> Homo sapien

```



&lt;400&gt; 189

```

tttttttttt tttgccgatn ctactatttt attgcaggan gtgggggtgt atgcaccgca      60
caccgggggt atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca      120
aagccgcttg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc      180
aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag      240
tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga ttctgaccag      300
gtcattgtgc cctgcccagg cacagcgta atctggaaaa gacagaatgc ttctcttttc      360
aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnggtctt ggtacncttg      420
gttcggccca gctccnctgc caaaaantat tcaccnctt ccnaattgct tgcnggnccc      480
cc

```

&lt;210&gt; 190

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(471)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 190

```

tttttttttt ttttaaaaca gtrtttcaca acaaaattta ttagaagaat agtgggttttg      60
aaaactctcg catccagtga gaactacat acaccacatt acagctngga atgtnctcca      120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcagg aaagaacaag      180
cgcttttgac atacaatgca caaaaaaaaa agggggggggg gaccacatgg attaaaattt      240
taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt      300
tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgacat gantnctcta      360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacnngt acaaaaaanaa      420
tctgtaattt anttcaacct ccgtacngaa aaatnttnt tatacactcc c

```

&lt;210&gt; 191

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(402)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 191

```

gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct      60
gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa      120
attcttcacc agtcacatct tctaggacct ttttggattc agttagtata agctcttcca      180
cttcttttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg      240
ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaaccca cctaaagtcc      300
ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcac tgtctgcaaa agttgcgtta gtatatctgc ca

```

&lt;210&gt; 192



<211> 601  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(601)  
 <223> n = A,T,C or G

<400> 192

```

gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac 120
atgcytyttt gaytaccgtg tgccaagtgc tgggtgattct yaacacacyt ccatcccyt 180
cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcacc 240
acgagacact tgaaaggtgt aacaaagcga ytcttgcaatt gctttttgtc cctccggcac 300
cagttgtcaa tactaaccgg ctgggtttgcc tccatcacat ttgtgatctg tagctctgga 360
tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarg tcttgggtgcc 420
tgttggatca ggttcccatt tcccagtcyg aatgttcaca tggcatattt wacttcccac 480
aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag 540
cctcgatgta gccggccagc gccaaaggcag gcgcctgtag ccccaccagc agcagaagca 600
g 601

```

<210> 193  
 <211> 608  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(608)  
 <223> n = A,T,C or G

<400> 193

```

atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
ggtcccgtctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcaactcytt 120
cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tctgtggcttg gggtkgacgg 180
tkaagtgcag gaagaggctg accacctcgc ggtccaccag gatgcccagac tgtgcggggac 240
ctgcagcgaa actctctgat ggtcatgagc ggggaagcgaa tgaggcccag ggccttgccc 300
agaaccttcc gctgtttctc tggcgtcacc tgcagctgct gccgctgaca ctccggcctcg 360
gaccagcgga caaacggcrt tgaacagccg cactcaccgg atgcccagtg tgtcgcgctc 420
caggammgsc accagcgtgt ccagggtcaat gtccgtgaag cctccgcggg gtrattggcgt 480
ctgcagtgtt ttgtcgatg ttctccaggc acaggctggc cagctgcggg tcatcgaaaga 540
gtcgcgcctg cgtgagcagc atgaaggcgt tgtcggctcg cagttcttct tcagggaactc 600
cacgcaat 608

```

<210> 194  
 <211> 392  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 194  
 gaacggctgg accttgctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60  
 ccagtccgag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggcttcccc 120  
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180  
 ttgtatttta cttgggaatt tcctctgta tatagctttt cccaatgcta atttccaaac 240  
 aacaacaaca aaataacatg ttgacctgtt aagttgtata aaagtaggtg attctgtatt 300  
 taaagaaaat attractgta catatactgc ttgcaatttc tgtatttatt gktnctstgg 360  
 aaataaatat agttattaaa gggtgtcant cc 392

<210> 195  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

<400> 195  
 ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60  
 ccgagctgag gcagatgttc ccacagtga cccagagacc stgggstata gtytctgacc 120  
 cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180  
 aaggggaagg cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240  
 ccccasgagg aagaggccct gagtcctggg atcagacacc ccttcacgtg tatccccaca 300  
 caaatgcaag ctccaccaagg tccccctcga gtccccctcc stacacctg amcgccact 360  
 gscscacacc cccccagagc acgccacccg ccatggggar tgtgtcgaag gartcgcnng 420  
 gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmtt 480  
 gctnanaaaa aaaaanaaaa aa 502

<210> 196  
 <211> 665  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(665)  
 <223> n = A,T,C or G

<400> 196  
 ggttacttgg ttctattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60  
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120  
 wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180  
 actwatttat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240  
 aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300  
 attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360

```

tcacttggtt attttattgt aaatgartta caaaattctt aatttaagar aatgggtatgt 420
watatttatt tcattaattt ctttcctkgt ttacgtwaat ttgaaaaga wtgcatgatt 480
tcttgacaga aatcgatctt gatgctgtgg aagtagtttg acccacatcc ctatgagttt 540
ttcttagaat gtataaagggt tgtagcccat cnaacttcaa agaaaaaaaaat gaccacatac 600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan 660
aagtg 665

```

```

<210> 197
<211> 492
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

```

```

<400> 197
tttntttttt ttttttttgc aggaaggatt ccatttattg tggatgcatt ttcacaatat 60
atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgatana gatnacagag. 180
aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaaactgaa 240
caaaattcta ccttgaaact tactccatcc aaatattgga ataanagtca gcagtgtatc 300
attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
tggttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
catttcactc ccatacaggg agtcaatgct acctgggaca cttgtatttt gtcatnctg 480
ancntggcct aa 492

```

```

<210> 198
<211> 478
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(478)
<223> n = A,T,C or G

```

```

<400> 198
tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
tgagtatatt ttgaaaagga caagtttaaa gtanacncat attgccganc atancacatt 180
tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
natatatgtc aatcngattt aagatacaaa acagatccta tgggtacatan catcntgtag 300
gagtttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaaga gatggccgta 360
agcattctag tactctact ccatgggttaa gaatcgta caatgtttta catatgtnc 420
gggtaagaat tgtgttaagt naanttatgg agaggtccan gagaaaaatt tgatncaa 478

```

```

<210> 199
<211> 482
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 199

```

agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcaactgaca atcagaccta      60
tgctagtcc tgctactat tcgctactaa atgcagactg gaggggacca aaaaggggca      120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga      180
agtgattcag tttcctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta      240
tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga      300
aaatttacct ggangaaaag aggccttngg ctggggacca tcccattgaa ccttctctta      360
anggacttta agaanaaact accacatgtn tgtngtatcc tggtyccngg ccgtttantg      420
aacntngacn ncacccttnt ggaatanant ctgacngcn tctgaactt gtcctctctgc      480
ga

```

<210> 200

<211> 270

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 200

```

cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgcca gcagttggtc      60
cgactgcgac gacggcgccg gcgacagtcg caggtgcagc gcgggcgccct ggggtcttgc      120
aaggctgagc tgacgccgca gaggtcgtgt cacgtcccac gaccttgacg ccgtcgggga      180
cagccggaac agagcccggt gaangcggga ggcctcgggg agccccctcg gaagggcgcc      240
ccgagagata cgcaggtgca ggtggccgcc

```

<210> 201

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(419)

<223> n = A,T,C or G

<400> 201

```

tttttttttt ttttggaatc tactgcgagc acagcaggtc agcaacaagt ttatttttgca      60
gctagcaagg taacagggta gggcatgggt acatgttcag gtcaacttcc ttgtcgtgg      120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca      180
tggagtgggt gcacctccc tgtagaacct gggtacnaaa gcttgggggca gttcacctgg      240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatatc ttttagagag      300

```

```
tccactgtnt ctggagggag attaggggtt cttgccaana tccaancaaa atccacntga 360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggcc 419
```

```
<210> 202
<211> 509
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G
```

```
<400> 202
ttnttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tggcacttaa tccattttta ttcaaaaatg tctacaaant ttnaatncnc cattatacng 120
gtntttttnc aaaatctaaa nnttattcaa atntnagcca aantccttac ncaaatnnaa 180
tacnncnaaa aatcaaaaat atacntntct ttcagcaaac ttngttacat aaattaaaaa 240
aatatatacg gctgggtgtt tcaaagtaca attatcttaa cactgcaaac atnttttnaa 300
ggaactaaaa taataaaaaa cactnccgca aagggttaaag ggaacaacaa attcntttta 360
caacancnnc nattataaaa atcatatctc aaatcttagg ggaatatata cttcacacng 420
ggatcttaac ttttactnca ctttgtttat ttttttanaa ccattgtntt gggcccaaca 480
caatggnaat nccnccnccn tggactagt 509
```

```
<210> 203
<211> 583
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(583)
<223> n = A,T,C or G
```

```
<400> 203
tttttttttt tttttttttga ccccccctctt ataaaaaaca agttaccatt ttatttttact 60
tacacatatt tatttttataa ttgggtattag atattcaaaa ggcagctttt aaaatcaaac 120
taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaaatc tgcctaaagt 180
gaaaatcttc tctagctctt ttgactgtaa attttttgact cttgtaaaac atccaaattc 240
atttttcttg tcttttaaat tatctaattc ttccattttt tccctattcc aagtcaattt 300
gcttctctag cctcattttc tagctcttat ctactattag taagtggctt ttttcctaaa 360
agggaaaaca ggaagagana atggcacaca aaacaaacat tttatattca tatttctacc 420
tacgttaata aaatagcatt ttgtgaagcc agctcaaaaag aaggcttaga tctttttatg 480
tccatttttag tcaactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt 540
attcaaaagc taatataaga tatttcacat actcatcttt ctg 583
```

```
<210> 204
<211> 589
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(589)  
 <223> n = A,T,C or G

<400> 204  
 tttttttnt ttttttttt ttttttntct ttcttttttt ttganaatga ggatcgagtt 60  
 tttcactctc tagatagggc atgaagaaaa ctcatctttc cagcttttaa ataacaatca 120  
 aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc 180  
 tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcatat 240  
 tgagaggttt ttcttctcta ttacacata tttttccarg tgaatttgta tcaaaccctt 300  
 attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360  
 cattacaaaa ctgctcaaat tgtttggttaa gnttatccat tataattagt tnggcaggag 420  
 ctaatacaaa tcacattttac ngacnagcaa taataaaaact gaagtaccag ttaaatatcc 480  
 aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540  
 ttattnagaa tgaattcaca tgttattatt cctagccca acacaatgg 589

<210> 205  
 <211> 545  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(545)  
 <223> n = A,T,C or G

<400> 205  
 tttttntttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60  
 agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120  
 tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180  
 ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240  
 aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300  
 atggggtgtc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360  
 tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420  
 aaggggonga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480  
 aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540  
 aaccc 545

<210> 206  
 <211> 487  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(487)  
 <223> n = A,T,C or G

<400> 206  
 tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60



<213> Homo sapien

<400> 209

```

gggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcattc ttgctccttg      60
tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca      120
caaaggactc tcgacccaaa ctgccccaga ccctctcca                               159

```

<210> 210

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 210

```

actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc      60
actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta      120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat      180
ttgcaggggtg naaatgggan ggctggtttg ttanatgaac agggacatag gaggtaggca      240
ccaggatgct aaatca                                                       256

```

<210> 211

<211> 264

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(264)

<223> n = A,T,C or G

<400> 211

```

acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg      60
actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt      120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga      180
ggggagatac attcngaaag aggactgaaa gaaataactca agtnggaaaa cagaaaaaga      240
aaaaaaggag caaatgagaa gcct                                              264

```

<210> 212

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(328)

<223> n = A,T,C or G



&lt;400&gt; 212

```

acccaaaaat ccaatgctga atatttggct tcattattcc canattcttt gattgtcaaa      60
ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag      120
gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccgccag      180
ttnaatttca tccccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta      240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca      300
tttttttttc ctttattcct ttgtcaga                                     328

```

&lt;210&gt; 213

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(250)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 213

```

acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt      60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct      120
cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt      180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct      240
tctcatcggt                                     250

```

&lt;210&gt; 214

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(444)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 214

```

accagaatc caatgctgaa tatttggcctt cattattccc agattctttg attgtcaaag      60
gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg      120
tttatatatg cagcaacaat attcaagcgc gacaacaggg tattgaactt gcccgccagt      180
tgaatttcat tccccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac      240
ccctacgact ctttactctc tggagagggg cagtgggtgg agctataagc ttggccacat      300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag      360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt      420
actttgctct ccctaataata cctc                                     444

```

&lt;210&gt; 215

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(366)  
 <223> n = A,T,C or G

<400> 215  
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240  
 tctcatcggt aagcagaggg tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300  
 tccaagctgt tttctacact gtaaccaggt ttccaaccaa ggtggaaatc tctatactt 360  
 ggtgcc 366

<210> 216  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(260)  
 <223> n = A,T,C or G

<400> 216  
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60  
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120  
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180  
 atcaaaaatt tctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240  
 aattcttctt tccctccttt 260

<210> 217  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 217  
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60  
 tcttgccat aattttctat ttttaataagg aaatagcaaa ttgggggtggg ggggaatgtag 120  
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180  
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240  
 atatccttca tgcttgtaaa gt 262

<210> 218  
 <211> 205  
 <212> DNA  
 <213> Homo sapien

$\langle 400 \rangle$  222

```
<210> 223
<211> 383
<212> DNA
<213> Homo sapien
```

<400> 223

```
<210> 224
<211> 320
<212> DNA
<213> Homo sapien
```

```
<210> 225
<211> 1214
<212> DNA
<213> Homo sapien
```

gaggactgca	gcccgcactc	gcagccctgg	caggcgggcac	tgggtcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggt	gcatccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	aggccagcct	ctccgtacgg	caccacagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtq	ccctaccgcq	gggaactctt	gcctcgtttc	tggctggggt	360



&lt;400&gt; 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaacga	gcctcctcct	tggagatgg	aagaccgtgt	120
tcgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttcactga	agcttttccc	acagcagtc	acctctgcag	360
gctggcagct	gaatggcttg	ccgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tcaggttgg	480
ccagacgggtg	ttggccactc	ccttctaata	cacaggcgcc	ctcctgggtga	cagtgaaccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctt	ctgtgttgtc	agctgtcttc	atttcttggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tggt				744

&lt;210&gt; 229

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcattgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgcagggc	tgacatgtgc	120
tgcaggggtg	ttgtttttta	attattattg	ttagaaagct	cacccacagt	cctgtttaat	180
ttgtatgtga	cagccaactc	tgagaaggte	ctatttttcc	acctgcagag	gatccagttc	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

&lt;210&gt; 230

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctgggttc	cactcaggaa	cgagagctga	ccaggttaag	ggagaagttg	180
cggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tcagggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

&lt;210&gt; 231

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 231

gcaagcacgc	tggcaaatct	ctgtcaggte	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgcaggtttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggta	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300

c

301

<210> 232  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 232

agtaggtatt tctgtgagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60  
 ggcgacagcg gggcttcctg attctggaat ataactttgt gttaaattaac agccacctat 120  
 agaagagtc atctgctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180  
 cgtgctgtac caagtgtgtg tgccagcctg ttacctgttc tcaactgaaa tctggctaata 240  
 gctctgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300  
 g 301

<210> 233  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 233

atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60  
 atgctaaggc cccagagatc gtttgatcca accctcttat ttccagaggg gaaaatgggg 120  
 cctagaagtt acagagcacc tagctggtgc gctggcacc ctggcctcac acagactccc 180  
 gagtagctgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatggg 240  
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaaggagaaa atcctatcaa 300  
 c 301

<210> 234  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 234

aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60  
 cattttattc atcatgatgc ttctttttgt ttcttctttt cgtttttctt tttttctttt 120  
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180  
 cgccctcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtggc 240  
 ttgatcacca gcttaatggg cagatcatct gcttcaatgg ctctcgtcagt atagttcttc 300  
 t 301

<210> 235  
 <211> 283  
 <212> DNA  
 <213> Homo sapien

<400> 235

tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60  
 aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120  
 tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180  
 atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatcaaca 240

ttagggattc aaagaaatat tagatttaag ctcacactgg tca

283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca ccaactgcct gaagcacggg taaaattggg aagaagtata gtgcagcata	60
aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg	120
tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatag	180
tgggtagacg gcttcatgag tacagtgtac tgtggatcgc taatctggac ttgggttgta	240
aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc	300
a	301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt ggtgggtggac gtggcggttg tgcgtggtgcc ttttttgggtg cccgtcacaa	60
actcaatttt tgttcgctcc tttttggcct ttccaattt gtccatctca attttctggg	120
ccttggctaa tgcctcatag taggagtcct cagaccagcc atggggatca aacatatcct	180
ttgggtagtt ggtgccaaagc tgcgcaatgg cacagaatgg atcagcttct cgtaaatcta	240
gggttcggaa attctttctt cctttggata atgtagttca tatccattcc ctccctttatc	300
t	301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcagggttt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt	60
gttcacagtt cagccccctg ctccagaaac caacgggcca gctaaggaga ggaggaggca	120
ccttgagact tccggagtcg aggctctcca ggggtcccca gcccatcaat cttttctgc	180
acccccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca	240
gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta	300
t	301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239

ataagcagct agggaattct ttatttagta atgtcctaac ataaaagtgc acataactgc	60
ttctgtcaaa ccatgatact gagctttgtg acaaccaga aataactaag agaaggcaaa	120
cataatacct tagagatcaa gaaacattta cacagttcaa ctgtttaaaa atagctcaac	180
attcagccag tgagtagagt gtgaatgccg gcatacacag tatacaggtc cttcaggga	239



<210> 240  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 240  
 ggtcctaatag aagcagcagc ttccacattt taagcaggt ttacgggtgat actgtccttt 60  
 gggatctgcc ctccagtga acccttttaag gaagaagtgg gcccaagcta agttccacat 120  
 gctgggtgag ccagatgact tctgttccct ggtcactttc ttcaatgggg cgaatggggg 180  
 ctgccaggtt tttaaaatca tgcttcatct tgaagcacac ggtcacttca cctcctcac 240  
 gctgtgggtg tactttgatg aaaataccca ctttgttggc ctttctgaag ctataatgtc 300

<210> 241  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 241  
 gaggtctggt gctgaggtct ctgggctagg aagaggagtt ctgtggagct ggaagccaga 60  
 cctcttttga ggaactcca gcagctatgt tgggtgtctct gagggaatgc aacaaggctg 120  
 ctctccatg tattggaaaa ctgcaaaactg gactcaactg gaagggaagt ctgctgccag 180  
 tgtgaagaac cagcctgagg tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240  
 tctcctcct gtcatacggg ctctctcaag catcctttgt tgtcaggggc ctaaaaggga 300  
 g 301

<210> 242  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 242  
 ccgaggtcct gggatgcaac caatcactct gtttcacgtg acttttatca ccatacaatt 60  
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaaataat gtatatcgat 120  
 gtcttcaaga atatatcatt cctttttcac tagaaccat tcaaaatata agtcaagaat 180  
 cttaatatca acaaatatat caagcaaact ggaaggcaga ataactacca taatttagta 240  
 taagtaccca aagttttata aatcaaaaagc cctaattgata accattttta gaattcaatc 300  
 a 301

<210> 243  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 243  
 aggtaagtcc cagtttgaag ctcaaaagat ctgggtatgag catagggtca tcgacgacat 60  
 ggtggcccaa gctatgaaat cagagggagg cttcatcttg gcctgtaaaa actatgatgg 120  
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcggcattga tgaccagcgt 180  
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaaccgc 240  
 tcaactaccg atgttccaga aaggacagga gacgtccacc aatccattg ctccatttt 300  
 t 301

<210> 244  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccagggaacct tggaaacagt tgacactgta aggtgcttgc tcccccaagac acatcctaaa 180  
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ctttcttatt tatgtgaaca 240  
 actggttgc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taattttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt atttttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aagggtatgct ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aagggtgttt cccccacgct 120  
 gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaagggag gcaagttctg gggttccttgc 240  
 cttttcaaac catgaagtca ggctctgtat cctcctttt cctaactgat attctaacta 300  
 a 301

<210> 248  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248

```

aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttaagaatt      120
acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                                                   301

```

<210> 249  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 249

```

gtccagagga agcacctggg gctgaactag gcttgccttg ctgtgaactt gcacttggag      60
ccctgacgct gctgttctcc ccgaaaaaacc cgaccgacct ccgcgatctc cgtcccgccc      120
ccagggagac acagcagtga ctccagagctg gtccgcacct gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                                                   301

```

<210> 250  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 250

```

ggctctgtgac aaggacttgc aggcctgtggg aggcaagtga cccttaacac tacactttct      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaaacc      300
a                                                                                   301

```

<210> 251  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 251

```

gccgagggtcc tacattttggc ccagttttccc cctgcatacct ctccaggggcc cctgcctcat      60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat      120
ggcagggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct      180
cattggggatc aatgaaaagc ttcaagaaat cttcagggtc actctcttga aggccccgaa      240
cctctggagg ggggagctgg aatcccagct ccaggacgga tctgtctgaa aagatatcct      300

```

c

301

<210> 252  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 252

gcaaccaatc	actctgtttc	acgtgacttt	tatcaccata	caatttgtgg	catttcctca	60
ttttctacat	tgtagaatca	agagtgtaaa	taaattgtata	tcgatgtctt	caagaatata	120
tcatttccttt	ttcactagga	acccattcaa	aatataagtc	aagaatctta	atatcaacaa	180
atatatcaag	caaactggaa	ggcagaataa	ctaccataat	ttagtataag	tacccaaagt	240
tttataaatc	aaaagcccta	atgataacca	tttttagaat	tcaatcatca	ctgtagaatc	300
a						301

<210> 253  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 253

ttccctaaga	agatgttatt	ttggtggggt	ttgttcccc	tccatctcga	ttctcgtacc	60
caactaaaaa	aaaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tgggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctggt	240
tccatagtgc	ccacagggta	ttcctcacat	tttctccata	ggaaaatgct	ttttcccaag	300
g						301

<210> 254  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 254

cgctgcgcct	ttcccttggg	ggagggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaattggga	caaaatcccc	120
ccaaatctct	tcattcttacc	ctgggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtaactgaaa	gactggcctc	240
acttaaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255  
 <211> 302  
 <212> DNA  
 <213> Homo sapien

<400> 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggat	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggtg	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240

aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac 300  
aa 302

<210> 256  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 256  
gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct 60  
aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120  
acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatctctat 180  
aggcaaatag ctgctggcaa actggcatta cctgggttgt ggggatgggg gggcaagtgt 240  
gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt 300  
t 301

<210> 257  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 257  
gtt.gtggagg aactctggct tgcctcattaa gtctactga ttttccactat cccctgaatt 60  
tccccactta tttttgtctt tcaactatcgc aggccttaga agaggtctac ctgctccag 120  
tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180  
gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240  
tcttaactct cactcttcta atcttatctc tttgactcct ctttacaccg gagaaggctc 300  
c 301

<210> 258  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 258  
cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60  
agggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120  
cccagggcaa caagaatcca ataccaggac tgggcaaat cttcaaagat cttaacactg 180  
atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240  
tggtgatccc tgggagcgcc ggtggagtaa cgttgggtcca tggaaagcag cgcccacaac 300  
t 301

<210> 259  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 259  
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60  
 gtgtcctgaa gtgatttgga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120  
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggcccag gaaggctctgt 180  
 tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggctt 240  
 cctcccatc ttctcaagca gtgtccttgt tgagccattt gcaccccttg ctccagggtg 300  
 c 301

<210> 260  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 260  
 ttttttttct cctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatggt 60  
 aagggtgtctt aacttgaaaa agattaggag tcaactgggtt acaagttata attgaatgaa 120  
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaacia caggattaac 180  
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc 240  
 actgagacat cagtacctgc ccggggcggcc gctcgagccg aattctgcag atatccatca 300  
 c 301

<210> 261  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 261  
 aaatattcga gcaaactctg taactaatgt gtctccataa aaggctttga actcagtgaa 60  
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120  
 agcaccaact attccatata attcatcagc aggaaataaa ggctcttcag aagggttcaat 180  
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcttag ttaagtgaag 240  
 ggcagatga tcatccaaag ccagtggtc acttactcca gactttctgc aatgaagatc 300  
 a 301

<210> 262  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 262

```
<210> 263
<211> 301
<212> DNA
<213> Homo sapien
```

```

<400> 263
tttgt ggtaaagtac tcacaaaact gatttttaaaa tcaagttaat gtgaattttg      60
acta ctttaactta attcacaata acaatggcat taaggtttga cttgagttgg      120
agtat tatttatggt aaataggctc ttaccacttg caaataaactg gccacatcat      180
actga cttcccagta aggcctctcta aggggttaaqt angaggatcc acaggatttg      240
ctaag gccccagaga tcgtttgatc caacctctct atcttcagag gggaaaatgg      300
                                         301

```

```
<210> 264
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	264						
aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaaacc		60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag		120
gtggatagat	ctagaattgt	aacatttttaa	gaaaaccata	scatttgaca	gatgagaaaag		180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacattttcac		240
acccttcata	taaattcact	atcttggctt	gaggcactcc	ataaaaatgta	tcacgtgcat		300
a							301

```
<210> 265
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	265						
tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcatctttgt		60
cttcttgta	cgcagtat	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta		120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga		180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag		240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg		300
c							301

<210> 266  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 266  
 taccgtctgc ccttcctccc atccaggcca tctgcgaatc tacatgggtc ctccatttcg 60  
 acaccagatc actctttcct ctacccacag gcttgctatg agcaagagac acaacctcct 120  
 ctcttctgtg ttccagcttc ttttcctggt cttcccaccc cttaagttct attcctgggg 180  
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccca ggggtgcacag 240  
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300  
 a 301

<210> 267  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 267  
 aaagagcaca ggccagctca gcctgccctg gccatctaga ctccagcctgg ctccatgggg 60  
 gttctcagtg ctgagtcctat ccaggaaaag ctccacctaga ccttctgagg ctgaatcttc 120  
 atcctcacag gcagcttctg agagcctgat attcctagcc ttgatggctt ggagtaaagc 180  
 ctcatcttga ttctctctct tcttttcttt caagttggct ttctccacat cctctctgtt 240  
 aatctgcttc agcttgtctg ctttagccct catttccaga agcttcttct ctttggcctc 300  
 t 301

<210> 268  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 268  
 aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta 60  
 gatcttggga gagctgggtc ttctaaggag aaggaggaag gacagatgta acttrggatc 120  
 tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttgggaata 180  
 tgctgggtgg ctcatgagc ctttttggag aaagcaagta ttattcttaa ggagtaacca 240  
 cttccattg ttctactttc taccatcctc aattgtatat tatgtattct ttggagaact 300  
 a 301

<210> 269  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 269  
 taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60  
 aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact 120  
 atagtcacag accttaata ttacattgt tttctatgtc tactgaaaat aagttcacta 180  
 cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240  
 tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300  
 t 301



<210> 270  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 270  
 cattgaagag cttttgcgaa acatcagaac acaagtgcctt ataaaattaa ttaagcctta 60  
 cacaagaata catattcctt ttatttctaa ggagttaaac atagatgtag ctgatgtgga 120  
 gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa 180  
 ccaactcctt gaactggatc atcagaagaa gggagggtgca cgatatactg cactagataa 240  
 tggaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300  
 a 301

<210> 271  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 271  
 aaaaggttct cataagatta acaatttaaa taaatatttg atagaacatt ctttctcatt 60  
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120  
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaagg 180  
 tgaaccacag agccacagca cacctcttct ccttggtgac tgccttcacc ccatganggt 240  
 tctctcctcc agatganaac tgatcatgcy cccacatttt gggttttata gaagcagtca 300  
 c 301

<210> 272  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 272  
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaatgtc 60  
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120  
 tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattccaca 180  
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttggtttc 240  
 ctaaggactt ccattgcac ccttacaata ttttctctac gcaccactag aattaagcag 300  
 g 301

<210> 273  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 273  
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60  
 agagangctg ggacatggat aatcacwtaa ttgctayta tyactttaat ctgactygaa 120  
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatttcacc 180  
 ttytttctgt ccagagagag tatcagtgac ananatttma gggagaamac atgmattggg 240  
 gggacttnty tttaacngagm accctgcccg sgcgcctcgc makcngantt ccgcsananc 300  
 t 301

<210> 274  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 274  
 cttatatact cttttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60  
 aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120  
 tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca 180  
 tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240  
 aattgtgctt cttttgataa gaagctttct tggatcatatc aggaaattcc aganaaagtc 300  
 c 301

<210> 275  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 275  
 tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60  
 gggagaattt ggccaacttt ctattaactt atgttggaat ttttgccacc aacagtaagc 120  
 tggcccttct aataaaagaa aattgaaagg ttctcacta aacggaatta agtagtggag 180  
 tcaagagact cccaggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc 240  
 agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccttat 300  
 a 301

<210> 276  
 <211> 301  
 <212> DNA

<213> Homo sapien

<400> 275

```
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180
caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240
aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat 300
g 301
```

<210> 277

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 277

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tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg 120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgccccca cctcgtcct 180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcctcccg ttcaatcttg 300
c 301
```

<210> 278

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 278

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taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
cagtctctac tggtattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacaggttt 240
tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
c 301
```

<210> 279

<211> 301

<212> DNA

<213> Homo sapien

CCCTGCTTCA

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 279  
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
 ttagaccttt accttccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180  
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
 a 301

<210> 280  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 280  
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60  
 tagaaagggtg gtggaaccaa attgtgggtca atggaaatag gagaatatgg ttctcactct 120  
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180  
 gtttgatata gtttaggggtt ggggttagat taagatctaa attacatcag gacaaagaga 240  
 cagactatta actccacagt taattaagga ggtaigtccc atgtttatit gttaaagcag 300  
 t 301

<210> 281  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 281  
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60  
 gccgagcaat ccaaactctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120  
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180  
 tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240  
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagt gtagtacctc 300  
 g 301

<210> 282  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 282  
 cagggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60  
 tccagaaccc aaaaattaag aaattcaaaa agacattttg tgggcacctg ctagcacaga 120  
 agcgcagaag caaagcccag gcagaaccat gctaacctta cagctcagcc tgcacagaag 180  
 cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg 240  
 cagaagcaaa gccccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300  
 a 301

<210> 283  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 283  
 atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag 60  
 cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120  
 gtgcacatcc agacatagta agygggttgct ctgaccaatc aggtgatcat tttttctatc 180  
 acttcccagg ttttatgcaa aaattttggt aaattctata atggtgatat gcactcttta 240  
 ggaaacatat acatttttaa aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300  
 g 301

<210> 284  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 284  
 caggtacaaa acgctattaa gtggccttaga atttgaacat ttgtggtctt tatttacttt 60  
 gcttcgtgtg tgggcaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa 120  
 gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180  
 ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactctatt 240  
 actggagtaa aagaaaacaa agttcattga tgcgaagga tatatacagt gttagaaatt 300  
 a 301

<210> 285  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (301)  
 <223> n = A,T,C or G

<400> 285  
 acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60  
 aatgatcatt agtgttttaa aaaaaatact gaaaactcct tctgcatccc aatctctaac 120  
 caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctattttctgg 180  
 attaaatatg tctgacttct tttgaggtca cactgactagg caaatgctat ttacgatctg 240  
 caaaagctgt ttgaagagtc aaagccccca tgtgaacacg atttctggac cctgtaacag 300  
 t 301

<210> 286  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 286

<400>	289						
ggtacactgt	ttccatgtta	tgtttctaca	cattgctacc	tcagtgtctc	tggaaactta		60
gcttttgatg	tctccaagta	gtccaccttc	atttaactct	ttgaaactgt	atcatctttg		120
ccaagtaaga	gtggtggcct	atttcagctg	ctttgacaaa	atgactggct	cctgacttaa		180
cgttctataa	atgaatgtgc	tgaagcaaaag	tgcccatggg	ggcggcggaan	aagagaaaaga		240
tgtgttttgt	tttggaactct	ctgtgggtccc	ttccaatgct	gtgggtttcc	aaccagnnga		300
a							301

<210> 290  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 290  
 acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60  
 tgactgatct gttcatttct ctacacagctc ttacccccaa aagcttttcc accctaagtg 120  
 ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180  
 gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240  
 tgccctgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgcg 300  
 a 301

<210> 291  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 291  
 cagggtaccaa tttcttctat cctagaaaca tttcatttta tgttggtgaa acataacaac 60  
 tatatragct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120  
 tttactcttt tgtttatagg tgaatcacaa aatgtatttt tatgtattct gtagttcaat 180  
 agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240  
 acatgagctt cacttcccc aactaactaatt agcatctggt atttcttaac cgtaatgcct 300  
 a 301

<210> 292  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 292  
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60  
 tgtattaaat aatttttaag tttaaaagat aaaataccat cattttaaat gttgggtattc 120  
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180  
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240  
 tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300  
 a 301

<210> 293  
 <211> 301

<212> DNA

<213> Homo sapien

<400> 293

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ggtagccaagt gctgggtgcca gcctggttacc tgttctcact gaaaagtctg gctaattgctc   60
ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt   120
aacacaaaacg tcaactagcaa agtagcaaca gctttaagtc taaatacaaaa gctggttctgt   180
gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg   240
ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat   300
g                                                                                   301

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<210> 294

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 294

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tgaccataaa caatatacac tagctatctt tttaaactgtc catcattagc accaatgaag   60
attcaataaaa attaccttta ttcacacatc tcaaaaacaat tctgcaaatt cttagtgaag   120
tttaactata gtcacaganc ttaaatattc acattgtttt ctatgtctac tgaaaaataag   180
ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc   240
cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt   300
t                                                                                   301

```

<210> 295

<211> 305

<212> DNA

<213> Homo sapien

<400> 295

```

gtactctttc tctccccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta   60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac   120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga   180
actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt   240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt   300
tctct                                                                                   305

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<210> 296

<211> 301

<212> DNA

<213> Homo sapien

<400> 296

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aggtagtatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct   60
cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg   120
attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac   180

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tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300  
 c 301

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(300)  
 <223> n = A,T,C or G

<400> 297  
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
 aaggttttga aaaccttgaa ggagaatcat tttagacaaga agtacttaag agtctagaga 120  
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240  
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatataccatc acactggcgg 300

<210> 298  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 298  
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc cctcccgcg 60  
 ggcattctgag agacctggtg ttccagtgtt tctggaaatg ggctccagtg ccgccggctg 120  
 tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccacct 180  
 gtccgtgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttcccccta 240  
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300  
 t 301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 299  
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca ggggtctctgc 60  
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct ccaggttagc 120  
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180  
 gagtttcgcc atgttggcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240  
 cggcctccca aagtgttgga attataggca tgagtcaaca cgcccagcct aaagatattt 300  
 t 301

<210> 300  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 300  
 attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60  
 tatgtccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120  
 gctgcattcc acaaggttct cagcctaatt agtttacta cctgccagtc tcaaaactta 180  
 gtaaagcaag accatgacat tccccacagg aatcagagt ttgccccacc gtcttggtac 240  
 tataaagcct gcctctaaca gtccttgctt cttcacacca atccccgagcg catcccccat 300  
 g 301

<210> 301  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 301  
 ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60  
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120  
 gggaactcac aaagaccctc agagctgaga cccccacaac agtgggagct cacaaagacc 180  
 ctgagagctg agacaccac aacagtggga gctcacaag accctcagag ctgagacacc 240  
 cacaacagca cctcgctcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300  
 t 301

<210> 302  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 302  
 aggtacacat ttagcttgtg gtaaattgact cacaaaactg attttaaaat caagttaatg 60  
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120  
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180  
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240  
 caggatttga gatgctaagg cccagagat cgtttgatcc aaccctctta ttttcagagg 300  
 g 301

<210> 303  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 303  
 aggtaccaac tgtggaaata ggtagaggat cttttttct ttccatatca actaagttgt 60  
 atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120  
 tggctaattg aactaccgct tgcattgtaa aaatgggtgt ttgtgaaatg atcataggcc 180  
 agtaacgggt atgtttttct aactgatctt ttgctcgctc caaagggacc tcaagacttc 240  
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300

c

301

<210> 304  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 304  
 acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60  
 tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120  
 ctttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctgggtgcagt 180  
 gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240  
 ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300  
 c 301

<210> 305  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 305  
 gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60  
 caggggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggag 120  
 taaaggagga gaaacagata caaaatctcc aactcagtat taagggtattc tcatgcctag 180  
 aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa 240  
 ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300  
 a 301

<210> 306  
 <211> 8  
 <212> PRT  
 <213> Homo sapien

<400> 306  
 Val Leu Gly Trp Val Ala Glu Leu  
 1 5

<210> 307  
 <211> 637  
 <212> DNA  
 <213> Homo sapien

<400> 307  
 acagggtratg aagggaaagg gagaggatga ggaagccccc ctgggggattt ggttttggtcc 60  
 ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac 120  
 attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180

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cacaccattg gtgagggagg gattaccacc ctgggggttat gaagatgggtt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacgggtgggg caaactctga 420
tttccgtggg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagtga 480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540
ggtggggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaactg aatcttg 637

```

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

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acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aagggtcata tgggactttc tactgcccraa ggttctatac aggatataaa 120
gnggcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gaccttttgg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggccctcaaag gatctcttac catgaagggtc tcagctaatt 300
cttgggctaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
catttttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

```

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

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actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtcg 240
ggggaattta ttcctggcaa ttttaatttg actccttatg tgagagcagc ggctacccag 300
ctggggtggt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaa 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

&lt;400&gt; 310

acgggactta	tcaaataaag	ataggaaaag	aagaaaactc	aaatattata	ggcagaaaatg	60
ctaaagggtt	taaaatatgt	caggattgga	agaaggcatg	gataaagaac	aaagttcagt	120
taggaaagag	aaacacagaa	ggaagagaca	caataaaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagatttgtg	ggaaatgggt	tggtttgttg	tatggatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgatc	acttgctgaa	300
ttcctcaagg	taggcatgat	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

&lt;210&gt; 311

&lt;211&gt; 526

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(526)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 311

caaatttgag	ccaatgacat	agaattttac	aaatcaagaa	gcttatctctg	gggccatttc	60
ttttgacgtt	ttctctaaac	tactaaagag	gcattaatga	tccataaatt	atattatcta	120
catttacagc	atttaaaatg	tggtcagcat	gaaatattag	ctacagggga	agctaaataa	180
attaacatg	gaataaagat	ttgtccctta	atataatcta	caagaagact	ttgatatttg	240
tttttcacaa	gtgaagcatt	cttataaagt	gtcataacct	ttttggggaa	actatgggaa	300
aaaatgggga	aactctgaag	ggtttttaagt	atcttacctg	aagctacaga	ctccataaacc	360
tdcttttaca	gggagctcct	gcagccccc	cagaaatgag	tggctgagat	tcttgattgc	420
acagcaagag	cttctcatct	aaaccctttc	cctttttagt	atctgtgtat	caagtataaa	480
agttctataa	actgtagtnt	acttatttta	atccccaaag	cacagt		526

&lt;210&gt; 312

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(500)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 312

cctctctctc	cccacccct	gactctagag	aactggggtt	tctcccagta	ctccagcaat	60
tcattttctga	aagcagttga	gccactttat	tccaaagtac	actgcagatg	ttcaaactct	120
ccattttctct	ttcccttcca	cctgccagtt	ttgctgactc	tcaacttgtc	atgagtgtaa	180
gcattaagga	cattatgctt	cttcgattct	gaagacaggc	cctgctcatg	gatgactctg	240
gcttcttagg	aaaatatatt	tcttccaaaa	tcagtaggaa	atctaaactt	atccctctt	300
tgcagatgtc	tagcagcttc	agacatttgg	ttaagaacct	atgggaaaaa	aaaaaatcct	360
tgctaattgt	gtttcccttg	taaaccanga	ttcttatttg	ntgggtatag	aatatcagct	420

ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt 480  
tagtcttaat tatctattgg 500

<210> 313  
<211> 718  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(718)  
<223> n = A,T,C or G

<400> 313  
ggagatttgt gtggttttgc gccgagggag accaggaaga tctgcatggt gggaaggacc 60  
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120  
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180  
gtagtacat gtttttgcac atttccagcc ctttttaata tccacacaca caggaagcac 240  
aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccatcttggg tcatcgatga 300  
gcctcgccct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360  
ttccttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420  
agatttgaaa tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat 480  
cttgatgggt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540  
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600  
cgttatacca atcatttctg tttctaccct caaacaagct gtngaataat tgacttacgg 660  
ttcttntggc ccacatttct atnatccacc ccntcntttt aannttante caaantgt 718

<210> 314  
<211> 358  
<212> DNA  
<213> Homo sapien

<400> 314  
gtttattttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60  
cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120  
caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180  
gctctcggta gtccagccac tgtgaaacat gctcccttta gattaacctc gtggagcgtc 240  
ttgttgtatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300  
tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315  
<211> 341  
<212> DNA  
<213> Homo sapien

<400> 315  
taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60  
ataggtgatg atgaggacat ggaatgggccc cccaaggatg gtctgtccaa agaagcgagt 120  
gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag ccccaatgac 180  
agtcaccagc tccccgacca gccggatata gtcccttaggg gtcattgtagg ctctctgaag 240  
tagcttctgc tgtaagaggg tgttgtcccc ggggctcgtg cggttatttg tccctgggctt 300

gagggggcg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 316  
 agactgggca agactcttac gccccacact gcaatttggc cttgttgccg tatccattta 60  
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120  
 cattcagggga gctctggttg caatattagt t 151

<210> 317  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 317  
 agaactagt gtcctaatg aaataacctga aacatatatt ggcatttatc aatggctcaa 60  
 atcttcattt atctctggcc ttaaccctgg ctctgagggc tgcggccagc agatcccagg 120  
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 318  
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60  
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120  
 tgggggcggt ttatcaggca gtgataaaca t 151

<210> 319  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

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<210> 320  
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 <212> DNA  
 <213> Homo sapien

<400> 320  
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 gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120  
 gagtgttcta cagcttacag taaataccat 150

<210> 321  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 321  
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 tgctctgag aatcaaagt cttcatacac t 151

<210> 322  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 322  
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 attgtgcagg gctcgttcca nacttccagt t 151

<210> 323  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

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 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 323  
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 nagactcant tactaccag tttgtggtt twtgggagaa atgtaactgg acagttagct 120  
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A,T,C or G



&lt;400&gt; 324

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gccaccatgc	accatggcat	gccagagttc	aacactgttg	ctcttgaaaa	ttgggtctga	420
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&lt;210&gt; 325

&lt;211&gt; 400

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 325

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&lt;210&gt; 326

&lt;211&gt; 1215

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 326

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aaaaaaaaaa	aaaaa					1215

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 <212> PRT  
 <213> Homo sapien

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 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly  
 35 40 45  
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu  
 50 55 60  
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala  
 65 70 75 80  
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp  
 85 90 95  
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn  
 100 105 110  
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro  
 115 120 125  
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys  
 130 135 140  
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly  
 145 150 155 160  
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro  
 165 170 175  
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala  
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 195 200 205  
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<210> 328  
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 <213> Homo sapien

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<210> 329  
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 <213> Homo sapien

&lt;400&gt; 329

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Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Leu
			20				25						30		
Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Thr
		35					40					45			
His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu
	50				55					60					
Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala			
65					70				75						

&lt;210&gt; 330

&lt;211&gt; 70

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 330

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gctgcagcca						70

&lt;210&gt; 331

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 331

Gln	His	Asn	Gly	Pro	Ile	Pro	Ser	Leu	Thr	Pro	Pro	Ser	Gly	Ser	Leu
1				5				10					15		
Val	Ser	Gly	Ser	Cys	Ser										
			20												

&lt;210&gt; 332

&lt;211&gt; 2507

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 332

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cccaggaact	ggccccggaga	ctaaaaggct	ctggcggttac	gacgtattct	gtacaccctg	720

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&lt;210&gt; 333

&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

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&lt;210&gt; 334

&lt;211&gt; 2417

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 334

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&lt;210&gt; 335

&lt;211&gt; 2984

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

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<210> 336

<211> 147

<212> PRT

<213> Homo sapien

<400> 336

Pro Ser Phe Pro Thr Leu Leu Ser Arg Arg His Leu Gly Ser Tyr Leu

1

5

10

15

Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr

20

25

30

Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln  
           35                          40                          45  
 Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala  
           50                          55                          60  
 Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln  
           65                          70                          75                          80  
 Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln  
                           85                          90                          95  
 Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala  
                           100                          105                          110  
 Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn  
                           115                          120                          125  
 Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro  
           130                          135                          140  
 Ala Phe Trp  
           145

&lt;210&gt; 337

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 337

Ala Leu Thr Gly Phe Thr Phe Ser Ala

1

5

&lt;210&gt; 338

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 338

Leu Leu Ala Asn Asp Leu Met Leu Ile

1

5

&lt;210&gt; 339

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 339

Met Val Glu Leu Met Phe Pro Leu Leu Leu Leu Leu Pro Phe Leu

1

5

10

15

Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val

20

25

30

Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly

35

40

45

Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg

50

55

60

Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu



65 70 75 80  
Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val  
85 90 95  
Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys  
100 105 110  
Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala  
115 120 125  
Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met  
130 135 140  
His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu  
145 150 155 160  
Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser  
165 170 175  
Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly  
180 185 190  
Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala  
195 200 205  
Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly  
210 215 220  
Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val  
225 230 235 240  
Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe  
245 250 255  
Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu  
260 265 270  
Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His  
275 280 285  
Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg  
290 295 300  
Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp  
305 310 315

&lt;210&gt; 340

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 340

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gccgaggtct gccttcacac ggaggacacg agactgcttc ctcaagggtc cctgcctgcc      60
tggacactgg tgggagggcg tggttagttg gctgttttca gaggggtctt tgggaggac      120
ctcctgctgc aggetggagt gtctttattc ctggcgggag accgcacatt cactgctga      180
ggttgtgggg gcggtttatc aggcagtgat aaacataaga tgtcatttcc ttgactccgg      240
ccttcaattt tctcttttggc tgacgacgga gtccgtggtg tcccgatgta actgaccct      300
gtccaaaacg tgacatcact gatgctcttc tggggggtgc tgatggcccg cttgggtcacg      360
tgctcaatct cgccattcga ctcttgctcc aaactgtagt aagacacctg actgcacgtt      420
ttttctgggc ttccagaatt taaagtgaag ggcagcactc ctaagctccg actccgatgc      480
ctg                                     483

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&lt;210&gt; 341

&lt;211&gt; 344

&lt;212&gt; DNA

<213> Homo sapien

<400> 341

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gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca	180
attaatttaa taattttctga tgatggtttt atctgcagta atatgtatat catctattag	240
aatttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc	300
ctgattctta acattgtctt taatgaccac aagacaacca acag	344

<210> 342

<211> 592

<212> DNA

<213> Homo sapien

<400> 342

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caatgtggaa acttcttata cttgggtcca ttatgaagtt ggacaattgc tgctatcaca	120
cctggcaggt aaaccaatgc caagagagtg atggaaacca tgggcaagac tttgttgatg	180
accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact	240
tccctcagaa gagtgtaaag aaaagtcaga gatgctataa tagcagctat ttttaattggc	300
aagtgccact gtggaaagag ttccctgtgtg tgcctgaagtt ctgaagggca gtcaaatcca	360
tcagcatggg ctggtttggg caaatgcaaa agcacaggtc tttttagcat gctgggtctct	420
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agttcttctt ggtttgtgat gtcttttctg ctttccatta attctataaa atagtatggc	540
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<210> 343

<211> 382

<212> DNA

<213> Homo sapien

<400> 343

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ctgactgccc aaggggctca gaaccccagc aatcccttcc ttccactacc ttcttttttg	300
ggggtagttg gaagggactg aaatttgtgg ggggaaggtag gaggcacatc aataaagagg	360
aaaccaccaa gctgaaaaaa aa	382

<210> 344

<211> 536

<212> DNA

<213> Homo sapien

<400> 344

ctgggcctga agctgtaggg taaatcagag gcaggcttct gagtgatgag agtcctgaga	60
caataggcca cataaacttg gctggatgga acctcacaat aagggtggta cctcttggtt	120
gttttagggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca	180
agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc	240

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caccttcatg tgcctgaatg gttgccaggt cagaaaaatc cacccttac gagtgcggt 300
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ccttcttatt atttgatcta gaaattgccc tctttttacc cctaccatga gccctacaaa 420
caactaacct gccactaata gttatgtcat cctctttatt aatcatcatc ctagccctaa 480
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

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<210> 345

<211> 251

<212> DNA

<213> Homo sapien

<400> 345

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tgaatgaagc ccccatcttt gtgcctcctg aaaagagagt ggaagtgtcc gaggactttg 120
gcgtgggcca ggaaatcaca tctacactg cccaggagcc agacacattt atggaacaga 180
aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg 240
gtgccatttc c 251

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<210> 346

<211> 282

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(282)

<223> n = A,T,C or G

<400> 346

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cgcgtctctg acactgtgat catgacaggg gttcaaacag aaagtgcctg ggccctcctt 60
ctaagtcttg ttacaaaaaa aaggaaaaag aaaagatctt ctcagttaca aattctggga 120
agggagacta tacctggctc ttgccctaag tgagaggtct tccctcccg cccaaaaaat 180
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
ggtctcattt cccaagggtg cttcaatgct catnaaaacc aa 282

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<210> 347

<211> 201

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

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taaataaac ttttaaaana ntactancag cttttacctt ngctcctaaa tgcttgtaaa 120
tctgagactg actggacca cccagacca gggcaaagat acatgttacc atatcatctt 180
tataaagaat ttttttttgt c 201

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<210> 348  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 348  
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 agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgcccctg ggcaggcaga 120  
 aggagacact cccagcatgg aggaggggtt atcttttcat cctagggtcag gtctacaatg 180  
 ggggaagggtt ttattataga actcccaaca gcccacctca ctctgccac ccacccgatg 240  
 gccctgcttc c 251

<210> 349  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 349  
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 aacccctgag gatgccagag ctatgggtcc agaacatggg gtggtattat caacagagtt 120  
 cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcarg cattccactt 180  
 agcaattttg taaaatacca gaaacagacc ccaagagtct ttcaagatga ggaaaattca 240  
 actcctgggt t 251

<210> 350  
 <211> 908  
 <212> DNA  
 <213> Homo sapien

<400> 350  
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 gtgtaaatatt gactgttctc aaaccaactt caatccccctc tgcgcttctg atgggaaatc 540  
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 ccacatacct tgtccggaac attacaatgg cttctgcatg catgggaagt gtgagcattc 780  
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 aaaaaaggac tacagtgttc tatacgttgt tcccggctct gtacgatttc agtatgtctt 900  
 aatcgag 908

<210> 351  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 351

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gtcaa	ac	ctt	aatg	ccatt	gt	ttatt	gtg	aa	ttagg	attaa	gtagta	120
catta	act	tg	at	ttt	aaa	at	cagw	ttt	gyg	agtc	attt	180
tatga	ta	aaa	aca	acc	att	gt	tatt	c	ctg	tt	ttt	240
atat	at	c	ctt	cg	ac	at	caat	ga	act	tt	gt	300
gat	ct	gt	cca	ca	ac	aa	act	tt	gcc	ct	ct	360
tc	ag	cccc	ct	ttt	gg	c	ct	gt	tt	gt	tc	420
gt	aa	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	472

&lt;210&gt; 352

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 352

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tgt	gg	ata	ag	gcc	agg	tcaa	tg	g	ct	g	caa	ag	cat	g	ca	gaga	aag	agg	taca	tc	gg	120
cagg	ct	gc	gt	tcc	gt	c	ct	ta	cg	at	ga	ag	ac	ca	g	at	gc	ag	tt	cc	aa	180
ata	cat	gg	aa	agg	g	gg	gg	gg	ga	ag	cca	ac	cca	gaa	at	gg	g	ct	tt	ct	aa	240
aata	ag	caca	a																		251	

&lt;210&gt; 353

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 353

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ca	att	at	tg	tatt	att	act	ata	ct	g	atta	t	at	cat	gt	g	act	t	ct	ta	att	ra	120
gt	at	cc	aaa	g	ca	aa	ac	ag	ag	at	ata	caa	a	att	aa	ag	ag	ata	g	ac	at	180
gata	agg	caa	ctt	ata	cat	g	aca	at	cc	aa	ta	ca	tt	ta	aa	ca	att	tg	gg	aa	at	240
gg	gg	g	aca	aa	tg	ga	ag	cc	ar	at	caa	att	tg	tg	ta	aa	act	tt	c	ag	at	300
tc	at	gt	ct	ga	ra	agg	ct	ct	c	ct	t	ca	at	gg	gg	at	g	aca	aa	ct	cc	360
tt	aa	caga	at	act	ag	att	ca	act	g	ga	ac	g	gg	g	ta	aa	ga	aga	aa	tt	at	420
gg	g	ct	c	ct	ta	tg	tag														436	

&lt;210&gt; 354

&lt;211&gt; 854

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 354

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ca	ag	t	ct	g	aa	ca	at	ct	g	ga	a	ca	ta	g	ga	a	c	g	ag	cc	agg	120
at	c	agg	g	acc	ac	ct	tt	gg	g	tt	g	at	at	tt	g	ct	ta	at	ct	g	cat	180
ct	g	g	c	ag	t	ag	tt	ct	cc	ag	g	t	ac	at	tt	ct	ta	g	ct	ca	aa	240
agg	act	tt	gt	c	agg	t	gc	ct	g	ct	aa	a	ag	cc	ag	at	g	cg	tt	c	gg	300
tt	a	att	g	ca	ac	ta	c	agg	c	act	g	g	ct	ca	tg	ct	tt	ca	ag	ta	tt	360
gt	g	ag	t	g	aa	gat	cccc	att	at	agg	ag	c	ac	tt	gg	g	ag	ag	ta	ta	ta	420

gagtacatgc	agtaatgggg	tagatgtgtg	tggtgtgtct	tcattcctgc	aagggtgctt	480
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atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

&lt;210&gt; 355

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 355

gaaattaagt	atgagctaaa	ttccctgtta	aaacctctag	gggtgacaga	tctcttcaac	60
cagggtcaag	ctgatctttc	tggaaatgtca	ccaaccaagg	gcctatatatt	atcaaaagcc	120
atccacaagt	cataacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cetaccaatg	agagctcagt	tcaaggcgaa	ccaccccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgccctc	300
ccctaatacag	atgggggttga	gtaaggctca	gagttgcaga	tgagggtgcag	agacaatcct	360
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attagatttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

&lt;210&gt; 356

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 356

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caagcttccc	atttgtagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca	180
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gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acaggggaagg	420
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gatagacggc	acagggagct	cttaggtcag	cgtctgtggt	tggaggacat	tcctgagtcc	540
agctttgcag	cctttgtgca	acagtacttt	ccca			574

&lt;210&gt; 357

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 357

tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcactgkact	60
taatattggkg	kcttgtttcac	tatactttaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaacccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatgg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

&lt;210&gt; 358

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagtg	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taagggaagt	180
gagtttaaac	tgagagaagc	aagtgtctta	actgaaggat	gtgttgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccgggtgta	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttgggt	gcattcaggg	attggcactt	ctacaagaaa	420
tcactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggg	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagtga	aatcagtagg	acttaatgag	600
caagccagag	gttcctccac	aacaaccagt				630

&lt;210&gt; 359

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 359

acagcattcc	aaaatatata	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaagt	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
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aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcataatacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

&lt;210&gt; 360

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 360

aaaaaaaaaa	agccagaaca	acatgtgata	gataatatga	ttggctgcac	acttccagac	60
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tgatgaatga tgaacgtgat ggactattgt atggagcaca tcttcagcaa gagggggaaa 120
tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc 180
aaaccttctt agctcttgag aagtcaaagt ccgggggaat ttattcctgg caattttaat 240
tggactcctt atgtgagagc agcggctacc cagctggggt ggtggagcga acccgctact 300
agtggacatg cagtggcaga gtccttggtg accacctaga ggaatacaca ggcacatgtg 360
tgatgccaaag cgtgacacct gtagcactca aatttgtctt gtttttgtct ttcggtgtgt 420
agattcttag t 431

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<210> 361

<211> 351

<212> DNA

<213> Homo sapien

<400> 361

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acactgattt ccgatcaaaa gaatcatcat ctttaccttg acttttcagg gaattactga 60
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ttgggtcctc tgggtctcttg ccaagtttcc cagccactcg agggagaaat atcgggaggt 180
ttgacttcct ccggggcttt ccgaggggt taccctgag cctgcggcc ctgagggtg 240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300
ctgccactct gtctccagc tctgacaget cctcatctgt ggtcctgttg t 351

```

<210> 362

<211> 463

<212> DNA

<213> Homo sapien

<400> 362

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tgtagatgag ccggctgaag atcttgccga tgcgcggctt cagggcgaag ttcttggcgc 120
ccccggtcac agaaatgacc aggttgggtg ttttcagggt cagtyctgg gtcagcagct 180
cgtaaaggat ttccgcgtcc gtgtcgcagg acagacgtat atacttccct ttcttcccca 240
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agttccattt ctcaactttg ttgatctggg tgccttccat gtgctggctc tgggcatagc 360
cacacttgca cacattctcc ctgataagca cgatggtgtg gacaggaagg aaggatttca 420
ttgagcctgc ttatggaaac tggattgtt agcttaaata gac 463

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<210> 363

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 363

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ctcttggnga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc 120
tgaggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat 180
ctaacgaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240

```



```

ccaacagcaa ccccccgga gtatgagttc ctctrggggc tccgttccta ccatgagasc 300
tagcaagatg naagtgttg gantcattgc agagggttcag aaaagagacc cntcgtgact 360
ggtctgcaca gttcatggag gctgcagatg aggccttggg tgctctggat gctgctgcag 420
ctgaggccga agcccgggct gaagcaagaa cccgcatggg aattggagat gaggctgtgt 480
ntggggccctg gagctgggat gacattgagt ttgagctgct gacctgggat gaggaaggag 540
atthttggaga tccntgggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600
cccgtccag attccctcag acctttgccg gtcccattat tggtcstggt ggt 653

```

<210> 364

<211> 401

<212> DNA

<213> Homo sapien

<400> 364

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aaaacaagggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180
tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240
catttcacac ccttcatata aattcactat cttggcttga ggcactccat aaaatgtatc 300
acgtgcatag taaatcttta tatttgctat ggcgttgcac tagaggactt ggactgcaac 360
aagtggatgc gcggaataatg aaatcttctt caatagccca g 401

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<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

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ccagtgtcat atttgggctt aaaatttcaa gaagggcact tcaaatggct ttgcatttgc 60
atgtttcagt gctagagcgt aggaatagac cctggcgctc actgtgagat gttcttcagc 120
taccagagca tcaagtctct gcagcaggct atrcttgggt aaagaaatga cttccacaaa 180
ctctccatcc cctggctttg gcttcggcct tgcgttttcg gcatcatctc cgttaaatggt 240
gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300
acattcgga atgtccctt tgtagccagt ttcttcttcg agctcccgga gagcag 356

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<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

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tcatacccat tgccagcagc ggcaccgtta gtcaggtttt ctgggaatcc cacatgagta 60
cttccgtgtt cttcattctt cttcaatagc cataaatctt ctagctctgg ctggctgttt 120
tcaattcctt taagcctttg tgactcttcc tctgatgtca gctttaagtc ttgttctgga 180
ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
caaattacat gatgatgact agaaacagca tactctctgg ccgtctttcc agatcttgag 300
aagatacatc aacatttttg tcaagtagay ggctgactat acttgctgat ccacaacata 360
cagcaagtat gagagcagtt cttccatata tatccagcgc atttaaatc gcttttttct 420
tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgtga 480
ggccatgctt gttttttgat tccatatcag caccgtataa gagcagtgtt ttggccatta 540
atthtatctt attgtagaca gcatagtgtg gagtgggtatt tccatactca tctggaatat 600

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ttggatcagt gccatgttcc agcaacatta acgcacattc atcttcctgg cattgtacgg 660
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gcacgagttt tactacttct gaattcccat tggcagaggc cagatgtaga gcagtcctct 780
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aatataattt tcctctggag ccatatggat gaactatgaa ggaagaactc cccgaagaag 1440
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cttttcccca tttagtatta tgttggtgt gggcttgtca taggtgggtt ttattacttt 1800
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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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accrtataag agcagtgctt tggccattaa tttatctttc attrtagaca gcrtagtgya 180
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agaaaactca tttttatgcc atgtattgaa atcaaacca cctcatgctg atatagttgg 420
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cgtctgtcca gcaggagttt tactacttct gaattcccat tggcagaggc cagatgtaga 540
gcagtcctat gagagtgaga agacttttta ggaaatigta gtgcactagc tacagccata 600
gcaatgattc atgtaactgc aaacactgaa tagcctgcta ttactctgcc ttcaaaaaaa 660
aaaaaaaa 668

```

<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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ttcaaacaga ttggaaaccc ggagttacct gctagttggt gaaactgggt ggtagacgcg 180
atctgttggc tactactggc ttctcctggc tgttaaaagc agatggtggt tgaggttgat 240

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&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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&lt;210&gt; 370

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 370

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 <213> Homo sapien

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 <221> misc\_feature  
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 <223> n = A,T,C or G

<400> 371

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<210> 372  
 <211> 1059  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 372

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&lt;210&gt; 373

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 373

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&lt;210&gt; 374

&lt;211&gt; 2000

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 374

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&lt;210&gt; 375

&lt;211&gt; 2040

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 375

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&lt;210&gt; 376

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 376

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Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
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His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
115         120         125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
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 180 185 190  
 Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly  
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 Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr  
 210 215 220  
 Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr  
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 260 265 270  
 Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu  
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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

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 Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys  
 20 25 30  
 Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys  
 35 40 45  
 Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu  
 50 55 60  
 Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp  
 65 70 75 80  
 Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp  
 85 90 95  
 Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro  
 100 105 110  
 Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp

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<210> 378
<211> 1719
<212> PRT
<213> Homo sapien
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	<400> 378														
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Pro	Phe	Gly	Leu 20	Arg	Ser	Lys	Met 25	Gly	Lys	Trp	Cys	Cys	Arg 30	Cys	Phe
Pro	Cys	Cys 35	Arg	Glu	Ser	Gly 40	Lys	Ser	Asn	Val	Gly	Thr 45	Ser	Gly	Asp
His 50	Asp	Asp	Ser	Ala	Met 55	Lys	Thr	Leu	Arg	Ser	Lys 60	Met	Gly	Lys	Trp
Cys 65	Arg	His	Cys	Phe	Pro 70	Cys	Cys	Arg	Gly	Ser	Gly 75	Lys	Ser	Asn	Val 80
Gly	Ala	Ser	Gly	Asp 85	His	Asp	Asp	Ser	Ala 90	Met	Lys	Thr	Leu 95	Arg	Asn
Lys	Met	Gly	Lys 100	Trp	Cys	Cys	His	Cys	Phe 105	Pro	Cys	Cys	Arg 110	Gly	Ser
Gly	Lys	Ser	Lys 115	Val	Gly	Ala	Trp 120	Gly	Asp	Tyr	Asp	Asp	Ser 125	Ala	Phe
Met 130	Glu	Pro	Arg	Tyr	His 135	Val	Arg	Gly	Glu	Asp	Leu 140	Asp	Lys	Leu	His
Arg 145	Ala	Ala	Trp	Trp	Gly 150	Lys	Val	Pro	Arg	Lys	Asp	Leu 155	Ile	Val	Met
Leu	Arg	Asp	Thr 165	Asp	Val	Asn	Lys	Lys	Asp 170	Lys	Gln	Lys	Arg 175	Thr	Ala
Leu	His	Leu	Ala 180	Ser	Ala	Asn	Gly	Asn	Ser 185	Glu	Val	Val	Lys 190	Leu	Leu
Leu	Asp	Arg 195	Arg	Cys	Gln	Leu	Asn	Val	Leu 200	Asp	Asn	Lys 205	Lys	Arg	Thr
Ala 210	Leu	Ile	Lys	Ala	Val	Gln	Cys 215	Gln	Glu	Asp	Glu	Cys 220	Ala	Leu	Met
Leu 225	Leu	Glu	His	Gly	Thr 230	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
Thr	Thr	Leu	His 245	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
Ala	Leu	Leu	Leu 260	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
Leu	Thr	Pro 275	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala 295	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile





1125 1130 1135  
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His  
 1140 1145 1150  
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp  
 1155 1160 1165  
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg  
 1170 1175 1180  
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val  
 1185 1190 1195 120  
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys  
 1205 1210 1215  
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly  
 1220 1225 1230  
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
 1265 1270 1275 128  
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr  
 1285 1290 1295  
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp  
 1300 1305 1310  
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 1315 1320 1325  
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala  
 1330 1335 1340  
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala  
 1345 1350 1355 136  
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn  
 1365 1370 1375  
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr  
 1380 1385 1390  
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr  
 1395 1400 1405  
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu  
 1410 1415 1420  
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
 1425 1430 1435 144  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly  
 1475 1480 1485  
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu  
 1490 1495 1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505 1510 1515 152  
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser  
 1525 1530 1535

1125 1130 1135  
 1140 1145 1150  
 1155 1160 1165  
 1170 1175 1180  
 1185 1190 1195 120  
 1205 1210 1215  
 1220 1225 1230  
 1235 1240 1245  
 1250 1255 1260  
 1265 1270 1275 128  
 1285 1290 1295  
 1300 1305 1310  
 1315 1320 1325  
 1330 1335 1340  
 1345 1350 1355 136  
 1365 1370 1375  
 1380 1385 1390  
 1395 1400 1405  
 1410 1415 1420  
 1425 1430 1435 144  
 1445 1450 1455  
 1460 1465 1470  
 1475 1480 1485  
 1490 1495 1500  
 1505 1510 1515 152  
 1525 1530 1535

Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu  
 1540 1545 1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
 1555 1560 1565  
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe  
 1570 1575 1580  
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe  
 1585 1590 1595 160  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
 1605 1610 1615  
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro  
 1620 1625 1630  
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
 1635 1640 1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
 1650 1655 1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665 1670 1675 168  
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
 1685 1690 1695  
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
 1700 1705 1710  
 Met Lys His Gln Ser Gln Leu  
 1715

&lt;210&gt; 379

&lt;211&gt; 656

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 379

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1 5 10 15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160



				565					570					575			
His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln		
			580					585					590				
Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln		
		595					600					605					
Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys		
	610					615					620						
Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile		
625					630					635					640		
Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu		
				645					650					655			

&lt;210&gt; 380

&lt;211&gt; 671

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 380

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys		
1				5					10					15			
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe		
		20						25					30				
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp		
		35					40					45					
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp		
	50					55					60						
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val		
65					70				75					80			
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn		
			85					90						95			
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser		
		100						105					110				
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe		
	115						120					125					
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His		
	130					135					140						
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met		
145					150					155				160			
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala		
				165					170					175			
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu		
		180					185						190				
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr		
	195					200						205					
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met		
	210					215					220						
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn		
225					230					235				240			
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys		
				245					250					255			
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly		





<210> 381  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 381  
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 ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac 180  
 atcctggggc tccaaggcag aggagagggg cctcaagaag gtcaggagga aaatccgtaa 240  
 caagcagtca g 251

<210> 382  
 <211> 3279  
 <212> DNA  
 <213> Homo sapiens

<400> 382  
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 atgctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt 120  
 cactgggagg ggacatcctg cagaaggtag gagtgcgcaa acaccgctg caggggaggg 180  
 gagagccctg cggcaactgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag 240  
 gggcctggag ggcgtgagga ggagcgagg ggctgcacat ctggagttag ggatcagggg 300  
 cagggcgcca gatggcctca cacagggaag agagggcccc tctgcaggg cctcacctgg 360  
 gccacaggag gacactgctt ttctctgag gagtgcaggag ctgtggatgg tgctggacag 420  
 aagaaggaca gggcctggct caggtgtcca gaggtgtcgt ctggcttccc ttgggatca 480  
 gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg 540  
 gtggctccag gccttgcccc tgctggggc ctcacccagc ctccctcaca gtctcctggc 600  
 cctcagtctc tccccccac tccatcctcc atctggcctc agtgggtcat tctgatcact 660  
 gaactgacca taccagccc tgcccacggc cctccatggc tccccaatgc cctggagagg 720  
 ggacatctag tcagagagta gtccgaaga ggtggcctct gcgatgtgcc tgtgggggca 780  
 gcacctgca gatggtccc gcccacatcc tgctgacctg tctgcaggga ctgtcctcct 840  
 ggaccttgcc ccttgtgcag gagctggacc ctgaagtccc ctccccatag gccaaagactg 900  
 gagccttgtt cctctgttg gactccctgc ccatattctt gtgggagtgg gttctggaga 960  
 catctctgtc tgttctgag agctgggaat tgctctcagt catctgcctg cgcggttctg 1020  
 agagatggag ttgcctaggc agttattggg gccaatcttt ctcactgtgt ctctcctcct 1080  
 ttacccttag ggtgattctg ggggtccact tgtctgtaat ggtgtgcttc aaggtatcac 1140  
 atcatggggc cctgagccat gtgccctgcc tgaaaagcct gctgtgtaca ccaaggtggg 1200  
 gcattaccgg aagtggatca aggacaccat cgcagccaac cctgagtgcc cctgtccca 1260  
 cccctacctc tagtaaatat aagtcacact cacgttctgg catcacttgg cctttctgga 1320  
 tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtcctact 1380  
 gacctgtgct ttctgggtgt gagtccaggg ctgctaggaa aaggaatggg cagacacagg 1440  
 tgtatgccaa tgtttctgaa atgggtataa tttcgctctc tcttcggaa cactggctgt 1500  
 ctctgaagac ttctcgctca gtttcagtga ggacacacac aaagacgtgg gtgaccatgt 1560  
 tgtttgtggg gtgcagagat gggaggggtg gggcccaccc tggaagagtg gacagtgaca 1620  
 caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac 1680  
 acacacagca aggttgacgc tgtaaacata gccacgctg tctggggggc actgggaagc 1740  
 ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgtttgtt aaggagggac 1800  
 tagggggaga aactgaaagc tgattaatta caggaggttt gttcaggtcc cccaaaccac 1860  
 cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggg 1920

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu  
100 105 110

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr  
115 120 125

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn  
130 135 140

Ala Leu Glu Arg Gly His Leu Val Arg Glu  
145 150

<210> 384

<211> 557

<212> DNA

<213> Homo sapiens

<400> 384

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ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt ccccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaagac acatcctaaa aggtgttgta atgggtgaaaa cgtcttctct ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
aaaaaaaaaa aaaaaaaa 557
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<210> 385

<211> 337

<212> DNA

<213> Homo sapiens

<400> 385

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ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctgggt cctgtcgtg gtctggatct 300
ctttggccac caattcccc ttttccacat cccggca 337
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<210> 386

<211> 300

<212> DNA

<213> Homo sapiens

<400> 386

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gggcccgccta ccggcccagg ccccgccctcg cgagtcctcc tccccgggtg cctgcccgcga 60
gccgcgtcgg ccagaggggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttg ccgaagggt ctagcaagga cccaccgacc ccagccgcgg cggcgggcggc 180
gcggaacttg ccggtgtgt gggcggggag ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300
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<210> 387  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
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 cccctctctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120  
 tgaaccagga ccggtctctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180  
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttcttc agcactgagg 240  
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctcttg 300  
 gcggcccagc acttccctcag acacaacttc ttcttgctgc tccagtctg gggatcatca 360  
 cttaccacc ccccaagttc aagaccaaat ctccagctg cccctctctg gtttccctgt 420  
 gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctccagctgg tgtagtctcc 480  
 ctgaccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaa aaaaaaa 537

<210> 388  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

<400> 388  
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 tgaggttaaa ccagtttgca ttccctaat gtggaaaaag taagaggact actcagcact 120  
 gtttgaagat tgctctctt acagctcttg agaatttgtt tatctcactt gcccaagtga 180  
 ggacccccct cccaacatgc cccagccccc cctaagcat ggtcccttgt caccaggcaa 240  
 ccaggaaact gctacttgtg gacctacca gagaccagga ggggtttggt agctcacagg 300  
 acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360  
 tcatactcaa ttgatggtta ttagacaatt ccatttcttt ctggttatta taaacagaaa 420  
 atctttcttc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480  
 atgaacttgt cttattttta tgggtgggttt ttttcttgt 520

<210> 389  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<400> 389  
 cgttgcccc gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60  
 gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgcct ctgctcccc 120  
 aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180  
 aagcctatgg ccagctgtct ttgtgttccc tctcaccggc ctgtcctcac agctgagact 240  
 cccaggaaac cttcagacta ccttccctctg ccttcagcaa ggggcgttgc ccacattctc 300  
 tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360  
 gggag 365

<210> 390  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(221)  
 <223> n = A,T,C or G

<400> 390  
 tgctctcca tcttgcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60  
 tacacggntt ctcatgggtg tggaacatct ctgcttgccg ttccaggaag gcctctggct 120  
 gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180  
 tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

<210> 391  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
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 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120  
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naantngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240  
 cactgcccag gaatcctaca gccagtaccc tgtcccagcg tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
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 agtctcactt nggcnagn gnctcctacttg agtctcttcc ccggcctggn ccagtngnaa 120  
 antaccanga accgncatgn cttaanaacn ncctggtttn tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggccc 240  
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

CCCTAGAGCC

&lt;400&gt; 393

```

actagtccag tgtggtggaa ttcgcggccg cgtcgacgga caggtcagct gtctggctca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacgtt 120
ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
gagaaggtct agtttgtcca tcagcattat catgatatca ggactggta cttggttaag 240
gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300
gggtggtttt caaaagtaga aatgtcctgt attccgatga tcacccctga aacattttat 360
catttattaa tcacccctgc ctgtgtctat tattatatc atactctac gctggaaact 420
ttctgcctca atgtttactg tgcctttgtt ttgtctagtt tgtgttgttg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagttatct taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaaa aaaaaa 566

```

&lt;210&gt; 394

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(384)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 394

```

gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattng gaccgggcca aggcctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggtttg agcatgacgt 240
gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

```

&lt;210&gt; 395

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggc ttcatcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaatttg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
gcagcctggc gagaccatcc aatcccaa ataatgcac 399

```

&lt;210&gt; 396

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens





<221> misc\_feature  
 <222> (1)...(298)  
 <223> n = A,T,C or G

<400> 399  
 acggaggtgg aggaagcgc cctgggatcg anaggatggg tcttgn catt gaccncctcn 60  
 ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120  
 ccgagatcga gcgcattggc ctggtcatgg accgcatggg ctccgtggag cgcattgggct 180  
 ccggcattga gcgcattggc ccgctgggcc tcgaccacat ggctccanc attgancgca 240  
 tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298

<210> 400  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 400  
 acatcaacta ctctctcatt ttaaggatg gcagttccct tcatccctt tccctgcctt 60  
 gtacatgtac atgtatgaaa ttctctctc ttaccgaact ctctccacac atcacaagggt 120  
 caaagaacca cacgcttaga agggtaagag ggcacctat gaaatgaaat ggtgatttct 180  
 tgagtctctt ttttccacgt ttaagggggc atggcaggac ttagagttgc gagttaagac 240  
 tgcagagggc tagagaatta ttccatacag gctttgaggc caccatgtc acttatcccg 300  
 tatacctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360  
 gttggcccca taattctggg cctttgttgt ttgttttaac tacttgggca tccaggaag 420  
 ctttccagtg atctctacc atgggcccc ctctgggat caagccctc ccaggccctg 480  
 tccccagccc ctctgcccc agccacccc cttgccttgg tgctcagccc tccattggg 540  
 agcaggtt 548

<210> 401  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

<400> 401  
 actgtttcca tggtatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60  
 tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120  
 taagagtggg ggctattttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180  
 tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240  
 ttgtttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300  
 cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

CCCTGTCCTT

<220>  
 <221> misc\_feature  
 <222> (1)...(407)  
 <223> n = A,T,C or G

<400> 402  
 atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60  
 tctcacatgc ggtggcatal ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120  
 aaatggaaaa cagaaaaaag cagggtgttc actcctactt tctgacaaaa cagactatgc 180  
 gaataaagat aaaaaagaga aggacattac aaagggtggc ctgacctttg ataaatctca 240  
 ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300  
 ttgtggagct tctccctgc agagagtcct tgatctccca aaatttggtt gagatgtaag 360  
 gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

<210> 403  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 403  
 cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaattc aggcacccaaa 60  
 tcttaagcaa gagccatggc atgggtgaaa tgcaaaagga gagtctggcc aatctacaaa 120  
 tagagaacaa gacctactca gtcattgaaca aaaaggcaga caccaacatg gatctcatgg 180  
 gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240  
 tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300  
 gga 303

<210> 404  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 404  
 aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60  
 attgttaatg cactcattta cctttacatg gtgaaagttc tctcttgatc ctacaaacag 120  
 acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttg gcatgtgaat 180  
 ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(334)

<223> n = A,T,C or G

<400> 405

```
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtcct tctccttact 120
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttcccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240
ctggtgcggt tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcannng tggatccac ccct 334
```

<210> 406

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(216)

<223> n = A,T,C or G

<400> 406

```
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aattttnatgt tgcacccttg ttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216
```

<210> 407

<211> 413

<212> DNA

<213> Homo sapiens

<400> 407

```
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt ttctctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atgggccagg ttctgtagta aag 413
```

<210> 408

<211> 183

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(183)

<223> n = A,T,C or G

<400> 408

```

ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tattttactcc ttcctggcta cccatgtact 180
ntt 183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc 250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctgggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gaggcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgcttg ctccccaaga cacatcctaa 180
aagggtgttgt aatgggtgaaa accgcttcct tctttattgc ccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc 306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411

```

CCCTTCTGTA











<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 424  
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120  
 cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180  
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240  
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300  
 cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360  
 tccgtcgacg 370

<210> 425  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 425  
 aattgctatn nttttatttg ccaactcaaaa taattacca aaaaaaaaaa tnttaaata 60  
 taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggcaga 120  
 anattatcca ttatnttaag gggttgacttc aggnatcagc acacagacaa acatgcccag 180  
 gaggnntntca ggaccgctcg atgtntntng aggagg 216

<210> 426  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 426  
 cttccagtga ggataaccct gttgccccgg gccgagggttc tccattaggc tctgattgat 60  
 tggcagtcag tgatggaagg gtgttctgat cattccgact gcccgaaggg tcgctggcca 120  
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180  
 gctgtccttg tatttttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240  
 gacatcacgg caacttttaa tgaaatgatt tgaaggggcca ttaagaggca cttcccgtta 300  
 ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360  
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420  
 ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480  
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540  
 gtcccgtggtg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427  
 <211> 107  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(107)

<223> n = A,T,C or G

<400> 427

gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncaccag 60  
cccgggagca gccttanaga gtcctgttt gactgcccgg ctcagng 107

<210> 428

<211> 38

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(38)

<223> n = A,T,C or G

<400> 428

gaacttcna anaangactt tattcactat ttacatt 38

<210> 429

<211> 544

<212> DNA

<213> Homo sapiens

<400> 429

ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60  
attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120  
atatccacga actcttgaag gactttctga tttatccaca atcaaatacat cgggttttcag 180  
tttggaatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcggt 240  
gccttccact tcagttacac ctcaactcacc atcctctcct gttggttctg tgctgcttca 300  
agataactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360  
tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420  
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480  
acctcaacaa gttagagaga tatgcatatc cagggatttt ttgccaggtg gtaggagaga 540  
ttat 544

<210> 430

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(507)

<223> n = A,T,C or G





<220>  
 <221> misc\_feature  
 <222> (1)...(667)  
 <223> n = A,T,C or G

<400> 436  
 accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60  
 tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120  
 agcctcttct ggaattcctc tgattttcaaa gtctcactct caagttcttg aaaacgaggg 180  
 cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240  
 atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300  
 gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360  
 tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420  
 agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480  
 gattccttta tggggtcagt gggaaagggtg tcaatgggac ttcgggtctcc atgccgaaac 540  
 accaaagtca caaacttcaa ctctttggct agtacacttc ggtctagcca gaaaaaaagc 600  
 agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660  
 tgttgag 667

<210> 437  
 <211> 693  
 <212> DNA  
 <213> Homo sapiens

<400> 437  
 ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60  
 acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120  
 taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180  
 ataaaagata attcttagcc cagtgtcttc tccagagcag acctgaaatg acagcacagc 240  
 aggtactcct ctattttcac cctctttgct tctactctct ggcagtcaga cctgtgggag 300  
 gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360  
 catttctcca ggttacccta ggtgtcacta ttgggggggac agccagcatc tttagctttc 420  
 atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480  
 acacctaaat gctgttgctc ctgaggtggt gaaagacaga tatagagctt acagtattta 540  
 tcctatttct aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600  
 taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660  
 ctgcatcatg tgtctcttg gctgaaaatg acc 693

<210> 438  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<400> 438  
 ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60  
 ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120  
 atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180  
 actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240  
 gataatctaa tgtgtttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300  
 gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

<210> 439  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439

```
gttcctnnta actcctgcc aaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t                                     431
```

<210> 440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 440

```
agagataaag cttaggtcaa agtccataga gtcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aactcttttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcactctg tgagaacaag cta                                     523
```

<210> 441

<211> 430

<212> DNA

<213> Homo sapiens

<400> 441

```
gttcctccta actcctgcc aaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag                                     430
```

<210> 442  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<400> 442  
 ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctattctaa aagattttga 60  
 tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120  
 cttcactttct gatacttgta aattaatctt ttattgcact tgttttgacc attaaagctat 180  
 atgttttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240  
 aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaatttctttt 300  
 tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360  
 tc 362

<210> 443  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(624)  
 <223> n = A,T,C or G

<400> 443  
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60  
 ttgaaagaat taaattcaga ggagggggaga gaaagagtac tcagtaggga ctgagcacta 120  
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180  
 tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300  
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360  
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420  
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaag 480  
 agtacagaga gagggcactt aaaccaacta agggcctgga ggggaagggtt cctggaaaga 540  
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600  
 ttgtccctat ctgctaaaca gatc 624

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(425)  
 <223> n = A,T,C or G

<400> 444  
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60  
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
 ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaat ccttgaatgc 180

22960000

```

tgcttaatgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420
gtaga 425

```

```

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

```

```

<400> 445
catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattcctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtggc agattatttg atgtagtttc ctttaactag catataaatc 180
tggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaatagact aggtcttctc tcttgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tgcacgcggc cgcgaattta gtag 414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 446
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120
atgctggtta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tgcagctgtg gattggaaca attcagattg 240
ctgtcatctg tgtggtgggc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaccttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgagggt 420
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttggc ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccttg catttggtgtg 540
aatctacacc aatgaaaaca tgtactacag ctatatattg ttatgtatgg atatatattg 600
aatagtatac attgtcttga tgttttttct g 631

```

```

<210> 447
<211> 585
<212> DNA

```





```

cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
cgacgtggga tccncactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggagggtgc aatgagctga gatcaggccn ctgcncccca 660
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

```

```

<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttaa aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggg cgacgcggcc 480
gcgaatttag tag 493

```

```

<210> 451
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 451
gggcgcgtcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacaa 360
cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggagggtggag 420
gttgcaatga gctgagatca ggccnctgcn ccccgacatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

```

<210> 452
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(51)

```

<223> n = A,T,C or G

<400> 452

agacgggtttc acconttaciaa cnccttttttag gatgggnntt ggggagcaag c 51

<210> 453

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(317)

<223> n = A,T,C or G

<400> 453

tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60  
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaccat 120  
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
 taacaaaacc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240  
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
 taccatgtc tttatta 317

<210> 454

<211> 231

<212> DNA

<213> Homo sapiens

<400> 454

ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60  
 taagccacgc cagctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120  
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180  
 ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

taccaaagag ggcataataa tcagtctcac agtaggggttc accatcctcc aagtgaaaaa 60  
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120  
 gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180  
 caaagaattt ctcatagcac agctcacaat acagggtctcc tttctcctct a 231

<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60  
 ttccattcag tattatcggt attattcttg gagaaaccct gtctgtttac tgtaaccttt 120  
 tgcactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180  
 cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaag t 231

<210> 457  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(231)  
 <223> n = A,T,C or G

<400> 457  
 cgagggtaccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60  
 gcattcctta atatgatctt gctataatta gattttttctc cattagagtt catacagttt 120  
 tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180  
 agttgtctaa atcgatgctt catttcctct gaggtgtcgc tggcttttgt g 231

<210> 458  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 458  
 aggtctgggt cccccactt ccactccctt ctactctctc taggactggg ctggggccaag 60  
 agaagagggg tgggttaggga agccgttgag acctgaagcc ccaccctcta ccttccttca 120  
 acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180  
 ggtcctgggt taggcatttt gggggggccag accccaggag aagaagattc t 231

<210> 459  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 459  
 ggtaccgagg ctcgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60  
 ccttcgcgaa acctgtgggt gcccaccagt cctaacggga caggacagag agacagagca 120  
 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180  
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 460  
 gcagggtataa catgctgcaa caacagatgt gactaggaac ggccgggtgac atggggaggg 60  
 cctatcacc ctttcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaat 120



&lt;400&gt; 465

```

catgttggtg tagctgtggt aatgctggct gcatctcaga cagggttaac ttcagctcct 60
gtggcaaatt agcaacaaat tctgacatca tatttatggg ttctgtatct ttgttgatga 120
aggatggcac aatTTTTtgc tgtgttcata atatactcag attagttcag ctccatcaga 180
taaactggag acatgcagga cattagggta gtgtttagc tctggtaatg a 231

```

&lt;210&gt; 466

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

```

caggtacctc tttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaacaat ttgccagga 120
cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
aataatggag accagtccca caagatgaca accagtcgtt gtgtgcggct g 231

```

&lt;210&gt; 467

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

```

gtacaccctg gcacagtcca atctgaactg gtccggcact catctttcat gagatggatg 60
tgggtggcttt tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac 120
tgtgccttaa cagaaggctc tgagattcta aytgggaatc atttcagtga ctgtcatgtg 180
gcatgggtct ctgcccaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
tgtgacctgc tgggcctccc aatagactaa caggcagtgc cagttggacc caagagaaga 300
ctgcagcaga c 311

```

&lt;210&gt; 468

&lt;211&gt; 3112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

```

cattgtgttg ggagaaaaac agagggggaga tttgtgtggc tgcagccgag ggagaccagg 60
aagatctgca tgggtgggaag gacctgatga tacagagttt gataggagac aattaaaggc 120
tggaaggcac tggatgcctg atgatgaagt ggactttcaa actggggcac tactgaaacg 180
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gaagttttaa catttctcca gtgatttttt tatctcacct ttgaagatac tatgttatgt 780
gattaaataa agaacttgag aagaacaggt ttcattaaac ataaaatcaa tgtagacgca 840

```

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&lt;210&gt; 469

&lt;211&gt; 2229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

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tttgactgac atgaattctg tgaaaagctt gttggatatt gtgatagaga tagagaaatg 240  
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 cttatttcag tgggctgttg gcaggaacaa atgaagcaat ctacataaag tcaactagtgc 1980  
 agtgctgac acacaccatt ctcttgaggt cctctctaga gatccacag gtcatatgac 2040  
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 ctaaaaatac aaaaattagc tgggcgtgct ggtgcatgcc tgaatccca gcccacacac 2220  
 aatggaatt 2229

&lt;210&gt; 470

&lt;211&gt; 2426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 470

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 caaaattcta aagcgcactc accatgaaat ggataaagggt tacctttggg gatattgcact 180  
 gcatgaattc tgtgaaaagc ttgttggata ttgtgataga gatagagaaa tgaagtatat 240  
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&lt;210&gt; 474

&lt;211&gt; 1594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

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&lt;210&gt; 476

&lt;211&gt; 3434

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

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<210> 477

<211> 141

<212> PRT

<213> Homo sapiens

<400> 477

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro  
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His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr  
20 25 30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr  
35 40 45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp  
50 55 60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr  
65 70 75 80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His  
85 90 95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr  
100 105 110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val

115 120 125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln  
130 135 140

<210> 478  
<211> 144  
<212> PRT  
<213> Homo sapiens

<400> 478  
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
5 10 15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
20 25 30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr  
35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
65 70 75 80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser  
85 90 95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp  
100 105 110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser  
115 120 125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val  
130 135 140

<210> 479  
<211> 223  
<212> PRT  
<213> Homo sapiens

<400> 479  
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
5 10 15

Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
20 25 30



Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr  
 35 40 45  
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
 50 55 60  
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
 65 70 75 80  
 Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser  
 85 90 95  
 His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val  
 100 105 110  
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val  
 115 120 125  
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
 130 135 140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
 145 150 155 160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
 165 170 175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp  
 180 185 190  
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
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 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val  
 210 215 220

<210> 480  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 480  
 Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val  
 5 10 15  
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr  
 20 25 30  
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg

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<210> 481
<211> 168
<212> PRT
<213> Homo sapiens

<400> 481
Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
          5                      10                      15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
          20                      25                      30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
          35                      40                      45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
          50                      55                      60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
          65                      70                      75                      80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
          85                      90                      95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
          100                      105                      110

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&lt;400&gt; 483

Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
                             5                            10                            15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
                             20                            25                            30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
                             35                            40                            45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
                             50                            55                            60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
                             65                            70                            75                            80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
                             85                            90                            95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
                             100                            105                            110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val  
                             115                            120                            125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
                             130                            135                            140

&lt;210&gt; 484

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo Sapien

&lt;400&gt; 484

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
   1                            5                            10                            15

Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
                             20                            25                            30

&lt;210&gt; 485

&lt;211&gt; 31

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 485

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<210> 486  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 486  
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<210> 487  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 487  
 cccgaattct tagctgcca tccgaacgcc ttcattc 36

<210> 488  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 488  
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<210> 489  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 489  
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
 1 5 10 15  
 Ser Val Ala

<210> 490  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<223> Made in a lab

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys  
1 5 10 15  
Leu Ser His Ser  
20

<213> Artificial Sequence

<223> Made in a lab

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
1 5 10 15  
Thr Gly Phe Thr  
20

<213> Artificial Sequence

<223> Made in a lab

Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr  
1 5 10 15  
Leu Ala Ser Leu  
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<213> Artificial Sequence

<223> Made in a lab

Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro  
1 5 10 15  
Lys Tyr Arg Gly  
20

<210> 494  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 494  
 Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser  
 1 5 10 15  
 Leu Met Ile Ser  
 20

<210> 495  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 495  
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro  
 1 5 10 15  
 Phe Pro Asn Gly  
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<210> 496  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 496  
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
 1 5 10 15  
 Pro Pro Pro Pro Ala  
 20

<210> 497  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 501  
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
1 5 10 15  
Val Ser Ala Ala  
20

<210> 502  
<211> 414  
<212> DNA  
<213> Homo Sapien

<400> 502  
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<210> 503  
<211> 379  
<212> DNA  
<213> Homo Sapien

<400> 503  
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tntccttagg gcaacctaa 379

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<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 504  
Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu

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Asn Ser Ala

5

10

15

&lt;210&gt; 505

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 505

Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr

1

5

10

15

Asn Thr Ala Asn

20

&lt;210&gt; 506

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 506

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&lt;210&gt; 507

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 507

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aa						422

&lt;210&gt; 508

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 508

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cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc      300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta      360
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&lt;210&gt; 509

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 509

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Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

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&lt;210&gt; 510

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 510

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Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
1           5           10           15

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&lt;210&gt; 511

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 511

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Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
1           5           10           15

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&lt;210&gt; 512

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5					10					15

&lt;210&gt; 513

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5					10					15

&lt;210&gt; 514

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
1				5					10					15

&lt;210&gt; 515

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 515

Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg
1				5					10					15

&lt;210&gt; 516

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

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<400> 520  
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 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 521  
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 Pro Pro Pro Pro Ala  
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<210> 522  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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 Phe Thr Gln Val  
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<210> 523  
 <211> 254  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

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 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
 35 40 45  
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
 50 55 60

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Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
 65 70 75 80  
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
 85 90 95  
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
 100 105 110  
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
 115 120 125  
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
 130 135 140  
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg  
 145 150 155 160  
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
 165 170 175  
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
 180 185 190  
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly  
 195 200 205  
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
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 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
 225 230 235 240  
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 245 250

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 <211> 765  
 <212> DNA  
 <213> Homo sapien

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<210> 525  
 <211> 254  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 525

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 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
 35 40 45  
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
 50 55 60  
 Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
 65 70 75 80  
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
 85 90 95  
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
 100 105 110  
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
 115 120 125  
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
 130 135 140  
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg  
 145 150 155 160  
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
 165 170 175  
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
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 Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly  
 195 200 205  
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
 210 215 220  
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
 225 230 235 240  
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 245 250

&lt;210&gt; 526

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 526

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<210> 527
<211> 321
<212> PRT
<213> Homo sapiens
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Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35              40              45
Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50              55              60
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65              70              75              80
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85              90              95
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100             105             110
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115             120             125
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130             135             140
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
      145             150             155             160
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
      165             170             175
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
      180             185             190
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val

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195                      200                      205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
     210                      215                      220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
     225                      230                      235                      240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
                     245                      250                      255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
                     260                      265                      270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
                     275                      280                      285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
     290                      295                      300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
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<210> 529  
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 <212> DNA  
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<400> 529  
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<210> 530  
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 <212> DNA  
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<211> 879

<212> DNA

<213> Homo sapiens

<400> 531

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<211> 293

<212> PRT

<400> 532

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Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn  
100 105 110

Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu  
115 120 125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys  
130 135 140

Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala  
145 150 155 160

Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr  
165 170 175

Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser  
180 185 190

Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu  
195 200 205

Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys  
210 215 220

Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr  
225 230 235 240

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<210> 535

<211> 6082

<212> DNA

<213> Homo sapiens

<400> 535

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&lt;210&gt; 536

&lt;211&gt; 6140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;



&lt;221&gt; unsure

&lt;222&gt; (4535)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 536

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&lt;210&gt; 537

&lt;211&gt; 1229

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

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Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala
      5                      10                      15

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```

Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys
      20                      25                      30

```

```

Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
      35                      40                      45

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```

Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
      50                      55                      60

```

```

Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
      65                      70                      75                      80

```

```

Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
      85                      90                      95

```

```

Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
     100                      105                      110

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```

Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
     115                      120                      125

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```

Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys
     130                      135                      140

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Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
     145                      150                      155                      160

```

```

Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
     165                      170                      175

```

```

Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly
     180                      185                      190

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Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val
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 Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly  
 225 230 235 240  
 Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys  
 245 250 255  
 Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg  
 260 265 270  
 Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met  
 275 280 285  
 Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys  
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 Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn  
 305 310 315 320  
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 340 345 350  
 Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe  
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 370 375 380  
 Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg  
 385 390 395 400  
 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr  
 405 410 415  
 Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser  
 420 425 430  
 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly  
 435 440 445  
 Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro  
 450 455 460  
 Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln  
 465 470 475 480

Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly  
 485 490 495  
 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala  
 500 505 510  
 Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile  
 515 520 525  
 Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn  
 530 535 540  
 Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp  
 545 550 555 560  
 Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu  
 565 570 575  
 Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His  
 580 585 590  
 Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp  
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 Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly  
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 Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu  
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 Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly  
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 675 680 685  
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 690 695 700  
 Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu  
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 Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly  
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Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr  
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 Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu  
 770 775 780  
 Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys  
 785 790 795 800  
 Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn  
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 Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu  
 820 825 830  
 Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu  
 835 840 845  
 Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile  
 850 855 860  
 Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg  
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 Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr  
 885 890 895  
 Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp  
 900 905 910  
 Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp  
 915 920 925  
 Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr  
 930 935 940  
 Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val  
 945 950 955 960  
 Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala  
 965 970 975  
 Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met  
 980 985 990  
 Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile  
 995 1000 1005  
 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro  
 1010 1015 1020

Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val  
1025 1030 1035 1040

Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu  
1045 1050 1055

Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly  
1060 1065 1070

Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu  
1075 1080 1085

Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu  
1090 1095 1100

Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile  
1105 1110 1115 1120

Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp  
1125 1130 1135

Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu  
1140 1145 1150

Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr  
1155 1160 1165

Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu  
1170 1175 1180

Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile  
1185 1190 1195 1200

Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln  
1205 1210 1215

Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys  
1220 1225

<210> 538

<211> 1262

<212> PRT

<213> Homo sapiens

<400> 538

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Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala  
20 25 30

Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser  
 35 40 45  
 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val  
 50 55 60  
 Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr  
 65 70 75 80  
 Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr  
 85 90 95  
 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr  
 100 105 110  
 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys  
 115 120 125  
 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly  
 130 135 140  
 Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn  
 145 150 155 160  
 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro  
 165 170 175  
 Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile  
 180 185 190  
 Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln  
 195 200 205  
 Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr  
 210 215 220  
 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile  
 225 230 235 240  
 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile  
 245 250 255  
 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys  
 260 265 270  
 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile  
 275 280 285  
 Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr  
 290 295 300



Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu  
 305 310 315 320  
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala  
 325 330 335  
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile  
 340 345 350  
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His  
 355 360 365  
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr  
 370 375 380  
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 405 410 415  
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 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln  
 485 490 495  
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile  
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 Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg  
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 His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr  
 530 535 540  
 Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile  
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Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn  
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 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro  
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Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe  
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Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val  
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Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn  
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Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr  
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Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr  
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Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys  
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Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr  
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<213> Homo sapiens

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
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Glu Pro His His Thr Gly Gly Gly Glu His  
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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
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 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
                   20                  25                  30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
                   35                  40                  45

Glu Pro His His Thr Gly Gly Gly Glu His  
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&lt;400&gt; 559

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
                   20                          25                          30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
           35                          40                          45

Glu Pro His His Thr Gly Gly Gly Glu His  
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&lt;210&gt; 560

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
                   20                          25                          30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
           35                          40                          45

Glu Pro His His Thr Gly Gly Gly Glu His  
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&lt;210&gt; 561

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 561

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
                   20                          25                          30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
           35                          40                          45

Glu Pro His His Thr Gly Gly Gly Glu His  
       50                          55

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<400> 562

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
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Glu Pro His His Thr Gly Gly Gly Glu His  
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<211> 58

<212> PR'T

<213> Homo sapiens

<400> 563

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His  
50 55

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<212> PRT

<213> Homo sapiens

<400> 564

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
 35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His  
 50 55

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<212> PRT

<213> Homo sapiens

<400> 565

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
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Glu Pro His His Thr Gly Gly Gly Glu His  
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
 20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
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Glu Pro His His Thr Gly Gly Gly Glu His  
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<213> Homo sapiens

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&lt;210&gt; 570

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

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&lt;210&gt; 571

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 571

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg  
 20 25 30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu  
 35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu  
 50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala  
 65 70 75 80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly  
 85 90 95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro  
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Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile  
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Leu Leu Asn Tyr  
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<210> 574  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 574  
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn  
5 10 15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln  
20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
35 40 45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala  
50 55 60

<210> 575  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 575  
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp  
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Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu  
20 25 30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly  
35 40 45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys  
65 70 75

<210> 576  
<211> 69  
<212> PRT  
<213> Homo sapiens

<223> Xaa = Any Amino Acid

Pro Gly Tyr Ser  
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<213> Homo sapiens

Arg    Ileu   Ala   Pro   Pro   Ala   Asp   Thr   Pro  
            50                          55

<213> Homo sapiens

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr

20

25

30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr  
 35 40 45

Gln Pro His  
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&lt;210&gt; 579

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 579

Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu  
 5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr  
 20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His  
 35 40 45

Ile Ala Lys Val Tyr Gln Pro His  
 50 55

&lt;210&gt; 580

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 580

Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser  
 5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
 20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
 35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
 50 55 60

Phe Ile His  
 65

&lt;210&gt; 581

<400> 581

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser  
65 70 75

<400> 582

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
35 40 45

Leu Gly Val  
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<400> 583

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
20 25 30



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                   20                                  25                                  30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
                   35                                  40                                  45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
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&lt;210&gt; 587

&lt;211&gt; 1408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 587

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&lt;210&gt; 588

&lt;211&gt; 81

&lt;212&gt; PRT

<400> 588

Ile

<211> 157

<212> PRT

<213> Homo sapiens

<400> 589

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115 120 125



Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly  
130 135 140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn  
145 150 155

<210> 590

<211> 347

<212> PRT

<213> Homo sapiens

<400> 590

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr  
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Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr  
20 25 30

Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys  
35 40 45

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys  
50 55 60

Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly  
65 70 75 80

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln  
85 90 95

Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala  
100 105 110

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser  
115 120 125

Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys  
130 135 140

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser  
145 150 155 160

Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp  
165 170 175

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile  
180 185 190

Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr

280  
Leu Ile Val Ala Ala  
295  
Val Val Leu Cys  
310  
Arg Gln Lys Gln  
Ala Ser Thr Arg  
345